

INTELLIGENT SYSTEMS

Vol.02

iBASE

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Table of Contents

Table of Contents		**2-3**
About IBASE		**4-5**
IBASE IIoT / Industry 4.0 Solutions		**6-7**
Vertical Applications		**8-10**
Comparison Table		**11-17**
1. AGS Series		
AGS100 AGS100T	Ultra-Compact Fanless System with Intel® Atom™ x7/x5, Pentium® & Celeron® Processors	**18-19**
AGS102 AGS102T	Ultra-Compact Fanless System with Intel® Atom™ x7/x5, Pentium® & Celeron® Processors Supports GPIO	**20-21**
2. AMS Series		
MAI602-M4D80	Motion Control Fanless System with 7th/6th Gen Intel® Core™ i7/i5/i3 Desktop Processors	**22-23**
NEW AMS210	Automatic Controller System with 9th/8th Generation Intel® Core™ Processor Supports 4th LAN Port, 3x Display Ports	**24-25**
AMS300	Expandable Fanless & Compact System with 7th/6th Gen Intel® Core™ i7/i5/i3 Desktop Processors Supports 1x Mini PCI-E (full-size)	**26-27**
NEW AMS300-1	Expandable Fanless & Compact System with 7th/6th Gen Intel® Core™ i7/i5/i3 Desktop Processors Supports 3rd LAN Port	**28-29**
AMS301	Expandable Fanless & Compact System with 7th/6th Gen Intel® Core™ i7/i5/i3 Desktop Processors Supports 4x Mini PCI-E (full-size)	**30-31**
AMS302	Expandable Fanless & Compact System with 7th/6th Gen Intel® Core™ i7/i5/i3 Desktop Processors Supports 1x Mini PCI-E (full-size), 1x PCI-E (x8) & 1x PCI-E (x4)	**32-33**
3. AMI Series		
AMI210	Expandable Fanless & Ventless System with 4th Gen Intel® Core™ i7/i5/i3 Desktop Processors	**34-35**
AMI210-PE	Expandable Fanless & Ventless System with 4th Gen Intel® Core™ i7/i5/i3 Desktop Processors Supports 2x 2.5" SATA HDD/SSD Tray	**36-37**
AMI220	Expandable Fanless & Ventless System with 7th/6th Gen Intel® Core™ i7/i5/i3 Desktop Processors	**38-39**
AMI221	Expandable Fanless & Ventless System with 7th/6th Gen Intel® Core™ i7/i5/i3 Desktop Processors Supports 1x PCI-E/PCI & 2x HDD/SSD Trays	**40-41**
AMI222	Expandable Fanless & Ventless System with 7th/6th Gen Intel® Core™ i7/i5/i3 Desktop Processors Supports 2x PCI-E/PCI & 2x HDD/SSD Tray & 2x Fieldbus	**42-43**
AMI230	Expandable Fanless & Ventless System with 9th/8th Gen Intel® Core™ i7/i5/i3 Desktop Processors Supports 4x Intel® Gigabit LAN, 8x USB 3.0, 3x M.2	**44-45**
NEW AMI231	Expandable Fanless & Ventless System with 9th/8th Gen Intel® Core™ i7/i5/i3 Desktop Processors Supports 1x PCI-E/PCI & 2x HDD/SSD Trays	**46-47**
NEW AMI232	Expandable Fanless & Ventless System with 9th/8th Gen Intel® Core™ i7/i5/i3 Desktop Processors Supports 2x PCI-E/PCI & 2x HDD/SSD Trays	**48-49**

4. CMI Series

	Embedded Function Cards		50-51
	Mini PCI-E Cards with Expansion		52
	CMI Series Chassis & Motherboard		53
NEW	CMI202-991	Expandable System with IBASE MI991AF Mini-ITX Motherboard Industrial 250W DC-Input Switching Power Supply	54-55
	CMI203 System Family	Expandable System with IBASE Mini-ITX Motherboard Industrial 250W ATX Power Supply	56-57
	CMI211 System Family	Expandable System with IBASE Mini-ITX Motherboard Industrial 250W ATX Power Supply	58-59
	CMI212 System Family	Expandable System with IBASE Mini-ITX Motherboard Optional 150W Power Adaptor	60-61
	CMI221-981	Expandable System with IBASE MI981AF Mini-ITX Motherboard Industrial 250W ATX Power Supply	62
NEW	CMI221-991	Expandable System with IBASE MI991AF Mini-ITX Motherboard Industrial 250W ATX Power Supply	63
NEW	CMI221-995	Expandable System with IBASE MI995EF Mini-ITX Motherboard AIOT Solution Compatible with AI Function Cards	64
NEW	CMI221-996	Expandable System with IBASE MI996EF Mini-ITX Motherboard AIOT Solution Compatible with AI Function Cards	65
	CMI222 System Family	Expandable System with IBASE Mini-ITX Motherboard Optional 84W Power Adaptor	66-67
	CMI300-988	Slim System with IBASE MI988F Mini-ITX Motherboard 200mm(W) x 200mm(D) x 62mm(H)	68-69

5. ASB Series

	ASB200-908	Slim System with IBASE IB908 3.5" Disk-Size SBC	70
	ASB200-909	Slim System with IBASE IB909 3.5" Disk-Size SBC	71
	ASB200-915	Slim System with IBASE IB915 3.5" Disk-Size SBC	72
	ASB200-916	Slim System with IBASE IB916 3.5" Disk-Size SBC	73
NEW	ASB200-918	Slim system with IBASE IB918 3.5" Disk-Size SBC AMD Embedded Ryzen™ Series SoC V1605B / V1202B / R1606G / R1505G	74-75
NEW	ASB200-919	Slim System with IBASE IB919 3.5" Disk-Size SBC 180mm(W) x 150mm(D) x 46.5mm(H), 2x M.2 (E-key, M-key) Internal Expansion	76-77

6. CSB Series

	CSB200-818	Slim System with IBASE IB818 3.5" Disk-Size SBC Flexible Storage Design	78
	CSB200-822	Slim System with IBASE IB822 3.5" Disk-Size SBC Flexible Storage Design	79
	CSB200-897	Slim System with IBASE IB897 3.5" Disk-Size SBC	80
	CSB200-898	Slim System with IBASE IB898 3.5" Disk-Size SBC	81

Product Index 82

About IBASE



Core Activities

Design and Manufacture of Robust Industrial Computing Platforms

HEADQUARTERS
Taipei, Taiwan

FOUNDED
February 2000

CHAIRMAN
C. S. Lin

CAPITAL
US$58.1M

EMPLOYEE
700
(Worldwide)

Stock Quote
TPEx 8050
(Since 2003)

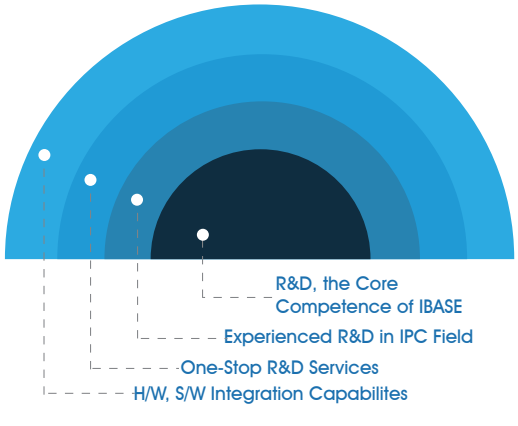
Company Profile

IBASE Technology specializes in the design and manufacture of robust industrial PC products, delivering high quality products and excellent service since its establishment in 2000. IBASE carries out manufacturing and quality control at its own facilities in Taiwan that are certified with ISO 9001, ISO 13485 and ISO 14001 standards. Current offerings comprise x86 and RISC-based industrial motherboards, embedded systems, panel PCs, network appliances and digital signage players. The company is publicly listed in the Taipei Exchange (TPEx: 8050) and is now a leading global provider of innovative industrial and embedded computing solutions.



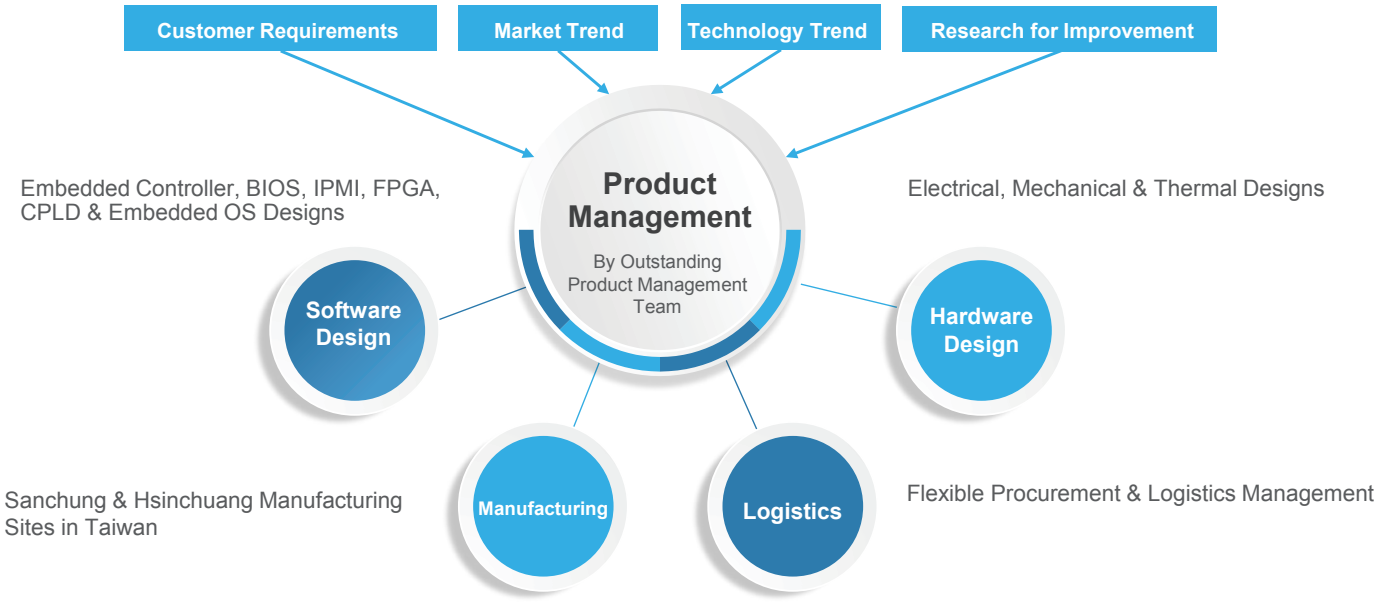
R&D Capabilities

IBASE's R&D team boasts of talented electronics, layout, system, mechanical hardware, BIOS, firmware as well as software engineers. Half of the team members are seasoned with more than 20 years of experience in their respective fields, while the rest of the engineers carry more than five years of experience. Because of their accumulated expertise, the R&D team is able to design and create new products for the demanding and dynamic market.



Design+, Manufacture+, Service+

Set up to become a global leading provider of embedded board and system solutions, IBASE manufacturers and supplies cutting-edge products based on the latest technologies to match market demands. Our R&D and product management teams have the expertise to design and develop products that are innovative and meet customers' requirements and design specifications. We attach great importance to research and development, investing heavily in manpower and resources to continuously provide high-quality innovative products. IBASE is also committed to compliance with environmental policies by working to prevent pollution with non-use of banned or restricted substances in our production process and products, helping our customers respond to their environmental challenges.



IBASE Manufacturing Sites

Hsinchuang
New Taipei City

- Board Production
- System Assembly
- Validation





Sanchung
New Taipei City

- System Assembly
- Validation

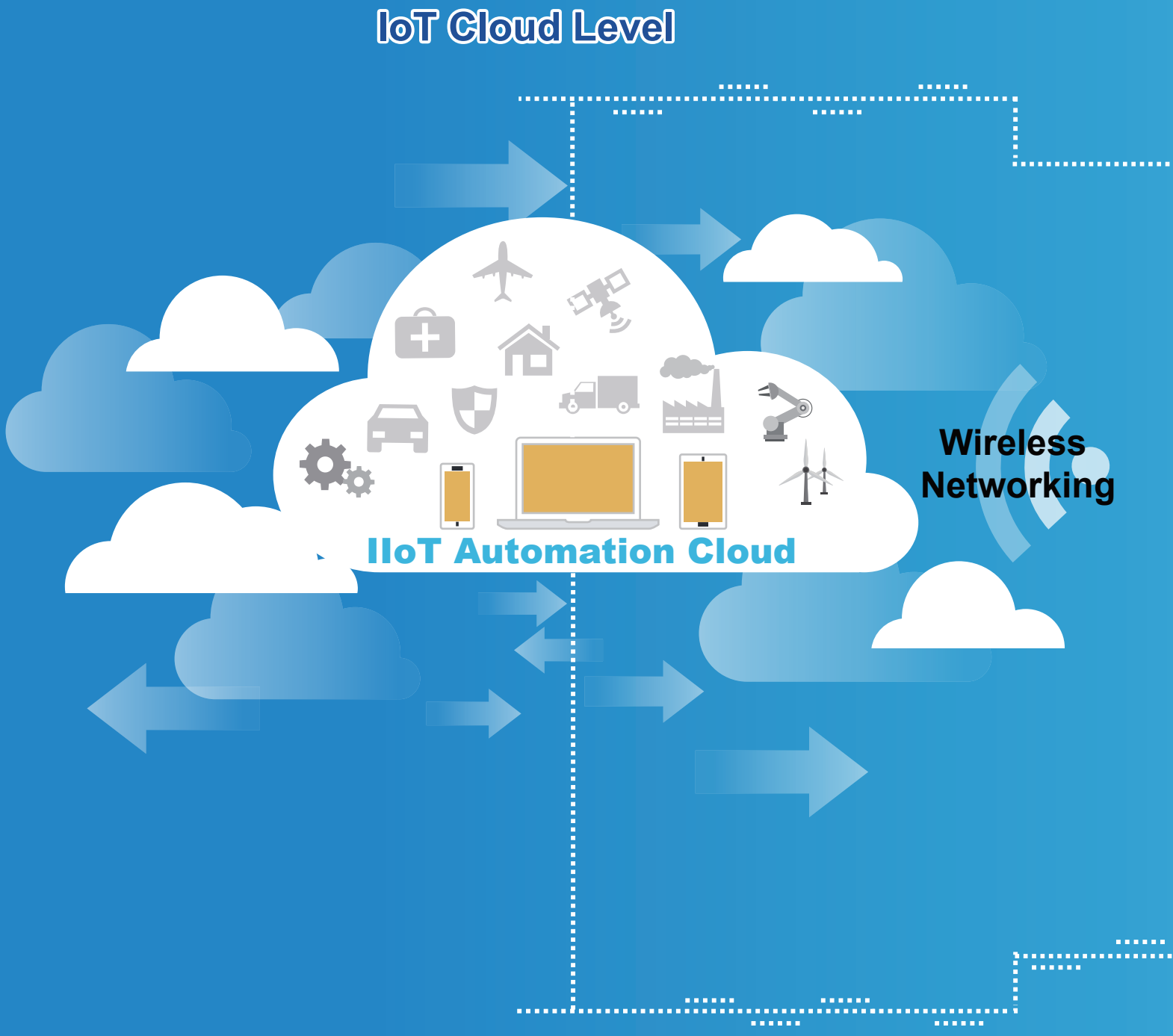




Certifications

ISO 9001 | ISO 14001 | ISO 13485 | ISO/TS 16949

IBASE IIoT / Industry 4.0 Solutions



Automation Equipment Level

Communication Level



IIoT Gateway
AGS100/AGS100T

Data
Extraction
Conversion

Field
Protocols
Connection



IIoT Gateway
AGS102/AGS102T

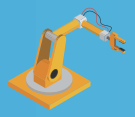
Robotic-Arm Control



AMI230 Series



AMS300 Series



Robotics Solution

Factory Automation



AMS210 Series



ASB200 Series



CSB200 Series

Softlogic Controller



Automation I/O



- Profibus
- Profinet

Machine Automation



MAI602-M4D80
(Motion Control)



AMI220 Series
(CNC Controller)



AMS300 Series
(EtherCAT Master Controller)



CMI212 Series
(Machine Controller)



CMI203 Series
(Bender Machine)

Smart Factory

IBASE intelligent computing platforms are used in modular structured smart factories where systems can remotely monitor and control physical processes over the Internet of Things for communication in real time between systems and with humans across the chain of operation. Smart factories are designed with the interconnection of machines, devices, sensors and users in mind in order to collect data and information from all points in the manufacturing process such as robotic control, vision inspection, assembly line and unmanned logistics station where IBASE intelligent systems can be used.



Robotic Control



AMS300
Page.26-27





AMI232/ASB200-919
Page.48-49/ Page.76-77



Vision Inspection



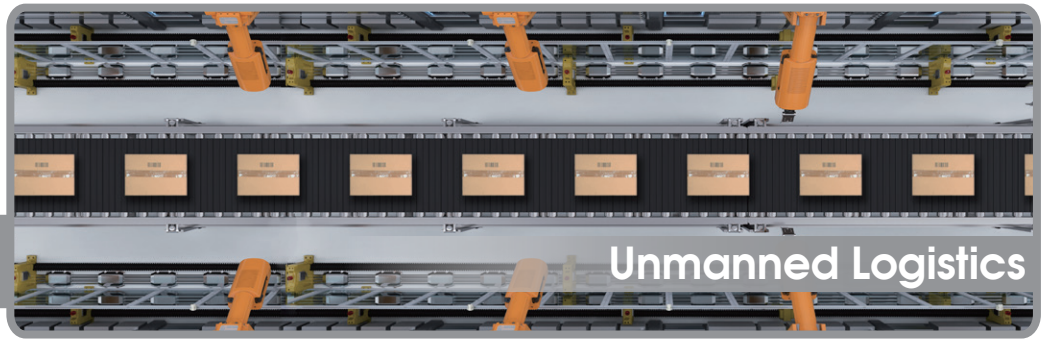
Assembly Line



AGS102
Page.20-21



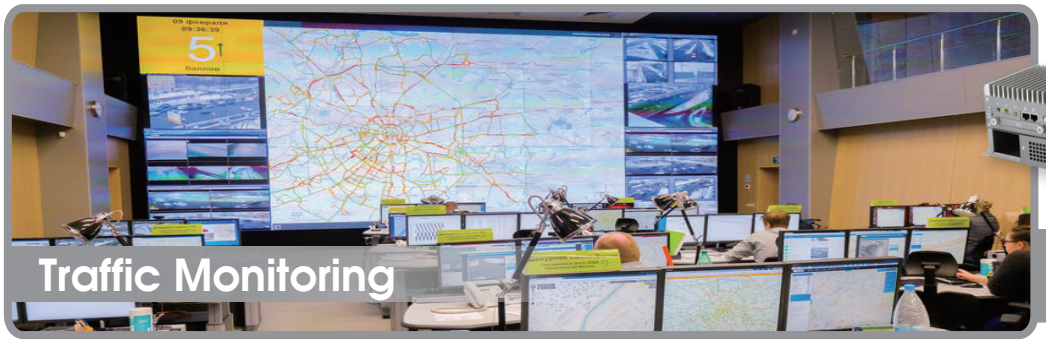
AMI220
Page.38-39



Unmanned Logistics

Intelligent Transportation Gateway

IBASE intelligent transportation systems can be deployed to different points in transport networks for transport and traffic management, with applications in traffic monitoring, automatic fare collection, automatic gateway and smart parking gateway. Designed as IoT and Machine-to-Machine gateways, IBASE transportation solutions deliver unprecedented computing performance and feature extended operating temperature, wide-range power input and hardware monitoring for CPU temperature and voltages to handle data and processing analysis requirements from various stations and sensors with improved reliability even in harsh environments.



Traffic Monitoring



AMS302/AMI230
Page.32-33/ Page.44-45



CSB200-818
Page.78



Automatic Fare Collection



Automatic Gateway Controller



AGS102
Page.20-21



AGS102T
Page.20-21



Intelligent Parking Gateway

Rugged and Embedded

IBASE intelligent embedded systems include compact and integrated platforms which offers fast time-to-market solutions with reliable and rugged designs, and are able to operate in harsh environments conditions with a temperature rang -40°C ~ 70°C. These systems come with high scalability, rich I/O connectivity and embedded longevity for supply stability assurance in industrial applications including automation, control, and transportation.








CSB200-818
Page.78



ASB200-916
Page.73

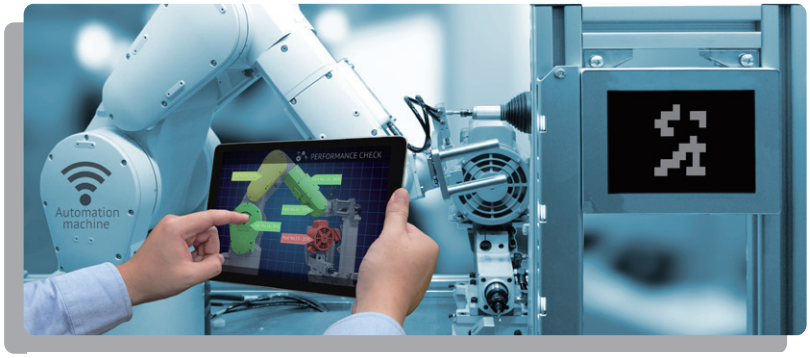
Surveillance/Video Analytics

Intelligent surveillance and video analytics systems are used in video analytic applications such as motion detection, flame and smoke detection, shape recognition, face recognition, tamper detection and video tracking. These platforms deliver high computing and graphics performance with advanced networking and seamless I/O speeds for image capturing, data transfers and video transmission.





AMS301
Page.30-31





CMI300-988/ASB200-918
Page.68-69/ Page.74-75

Comparison Table






Models		AGS100	AGS100T	AGS102	AGS102T
System	Processor	Intel® Atom™ x7-E3950/ x5-E3940/ x5-E3930 & Pentium® N4200/ Celeron® N3350 Processors	Intel® Atom™ x7-E3950/ x5-E3940/ x5-E3930 & Pentium® N4200/ Celeron® N3350 Processors	Intel® Atom™ x7-E3950/ x5-E3940/ x5-E3930 & Pentium® N4200/ Celeron® N3350 Processors	Intel® Atom™ x7-E3950/ x5-E3940/ x5-E3930 & Pentium® N4200/ Celeron® N3350 Processors
	PCH	N/A	N/A	N/A	N/A
	Memory	1x DDR3L-1866 SO-DIMM	1x DDR3L-1866 SO-DIMM	1x DDR3L-1866 SO-DIMM	1x DDR3L-1866 SO-DIMM
	Max. Memory	8GB	8GB	8GB	8GB
	Graphics	Intel® HD Graphics 505	Intel® HD Graphics 505	Intel® HD Graphics 505	Intel® HD Graphics 505
I/O Interface	Display	1x DisplayPort 1x DVI-I	1x DisplayPort 1x DVI-I	1x DisplayPort 1x DVI-I	1x DisplayPort 1x DVI-I
	Ethernet	2x Intel® I210IT Gigabit LAN (For E-series CPU) 2x Intel® I210AT Gigabit LAN (For N-series CPU)	2x Intel® I210IT Gigabit LAN (For E-series CPU) 2x Intel® I210AT Gigabit LAN (For N-series CPU)	2x Intel® I210IT Gigabit LAN (For E-series CPU) 2x Intel® I210AT Gigabit LAN (For N-series CPU)	2x Intel® I210IT Gigabit LAN (For E-series CPU) 2x Intel® I210AT Gigabit LAN (For N-series CPU)
	Serial Port	2x RS232/RS422/485	2x RS232/RS422/485	2x RS232/RS422/485 2x RS232	2x RS232/RS422/485 2x RS232/RS422/485
	USB	4x USB 3.0	4x USB 3.0	4x USB 3.0 1x USB 2.0	4x USB 3.0 1x USB 2.0
	Audio	1x Speaker-out	1x Speaker-out	1x Speaker-out	1x Speaker-out
	Digital I/O	N/A	N/A	4-in & 4-out	4-in & 4-out
Storage Interface	SATA HDD	N/A	N/A	N/A	N/A
	mSATA/M.2	1x mSATA 1x 3042 M.2 B-Key socket 1x 2230 M.2 E-Key socket	1x mSATA 1x 3042 M.2 B-Key socket 1x 2230 M.2 E-Key socket	1x mSATA 1x 3042 M.2 B-Key socket 1x 2230 M.2 E-Key socket	1x mSATA 1x 3042 M.2 B-Key socket 1x 2230 M.2 E-Key socket
	CFast	N/A	N/A	N/A	N/A
Expansion Slots	PCI Express / PCI bus	N/A	N/A	N/A	N/A
	Mini PCI-E	1x Mini PCI-E slot	1x Mini PCI-E slot	1x Mini PCI-E slot	1x Mini PCI-E slot
Power	Power input	9V~36V DC-input	9V~36V DC-input	9V~36V DC-input	9V~36V DC-input
	Power Connector	3-pin terminal block	3-pin terminal block	3-pin terminal block	3-pin terminal block
	Power Protection	OVP, UVP, Reverse voltage protection	OVP, UVP, Reverse voltage protection	OVP, UVP, Reverse voltage protection	OVP, UVP, Reverse voltage protection
Mechanical	Dimensions	160mm (W) x 110mm (D) x 44mm (H)	160mm (W) x 110mm (D) x 44mm (H)	160mm (W) x 110mm (D) x 44mm (H)	160mm (W) x 110mm (D) x 44mm (H)
	Weight	1kg	1kg	1kg	1kg
	Construction	Aluminum & steel	Aluminum & steel	Aluminum & steel	Aluminum & steel
	Chassis Color	Silver/Gray	Silver/Gray	Silver/Gray	Silver/Gray
	Mounting	Desktop & wall mount DIN-rail mount	Desktop & wall mount DIN-rail mount	Desktop & wall mount DIN-rail mount	Desktop & wall mount DIN-rail mount
Environmental	Operating Temperature	-40°C~70°C (-40°F~158°F) (For E-series CPU) -20°C~60°C (-4°F~140°F) (For N-series CPU)	-40°C~70°C (-40°F~158°F) (For E-series CPU) -20°C~60°C (-4°F~140°F) (For N-series CPU)	-40°C~70°C (-40°F~158°F) (For E-series CPU) -20°C~60°C (-4°F~140°F) (For N-series CPU)	-40°C~70°C (-40°F~158°F) (For E-series CPU) -20°C~60°C (-4°F~140°F) (For N-series CPU)
	Storage Temperature	-40°C~85°C (-40°F~185°F)	-40°C~85°C (-40°F~185°F)	-40°C~85°C (-40°F~185°F)	-40°C~85°C (-40°F~185°F)
	Certification	CE/FCC/LVD/CCC/UL	CE/FCC/LVD/UL	CE/FCC/LVD/CCC/UL	CE/FCC/LVD/UL
	Others	N/A	TPM 2.0	N/A	TPM 2.0
	Page No.	p. 18 - 19	p. 18 - 19	p. 20 - 21	p. 20 - 21

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

Comparison Table






Models		AMS210	AMS300	AMS301	AMS302
System	Processor	9th/8th Gen Intel® Core™ i7/i5/i3 Desktop Processors (35W TDP)	7th/6th Gen Intel® Core™ DT i7/i5/i3 Processors (Max. 35W TDP)	7th/6th Gen Intel® Core™ DT i7/i5/i3 Processors (Max. 35W TDP)	7th/6th Gen Intel® Core™ DT i7/i5/i3 Processors (Max. 35W TDP)
	PCH	Intel® Q370 PCH	Intel® Q170 PCH	Intel® Q170 PCH	Intel® Q170 PCH
	Memory	2x 4GB DDR4-2666/2400 SO-DIMM	2x DDR4-2133 SO-DIMM	2x DDR4-2133 SO-DIMM	2x DDR4-2133 SO-DIMM
	Max. Memory	32GB	32GB	32GB	32GB
	Graphics	Intel® HD Graphics	Intel® HD Graphics 530	Intel® HD Graphics 530	Intel® HD Graphics 530
I/O Interface	Display	3x DisplayPort	1x DisplayPort 1x DVI-I	1x DisplayPort 1x DVI-I	1x DisplayPort 1x DVI-I
	Ethernet	1x Intel® I219LM GbE PHY 1x Intel® I210IT Gigabit LAN 1x Intel® I210IT Gigabit LAN 1x Intel® I210IT Gigabit LAN	1x Intel® I219LM Gigabit LAN PHY 1x Intel® I211AT Gigabit LAN	1x Intel® I219LM Gigabit LAN PHY 1x Intel® I211AT Gigabit LAN	1x Intel® I219LM Gigabit LAN PHY 1x Intel® I211AT Gigabit LAN
	Serial Port	1x RS232/RS422/485 3x RS232 (optional)	1x RS232/RS422/485 1x RS232	1x RS232/RS422/485 1x RS232 2x RS232 (optional)	1x RS232/RS422/485 1x RS232 2x RS232 (optional)
	USB	4x USB 3.1 4x USB 2.0	4x USB 3.0 2x USB 2.0	4x USB 3.0 2x USB 2.0	4x USB 3.0 2x USB 2.0
	Audio	1x Line-out	1x Line-out	1x Line-out	1x Line-out
	Digital I/O	4-in & 4-out (optional)	4-in & 4-out (optional)	4-in & 4-out (optional)	4-in & 4-out (optional)
Storage Interface	SATA HDD	2x 2.5" HDD or SSD	2x 2.5" HDD or SSD	2x 2.5" HDD or SSD	2x 2.5" HDD or SSD
	mSATA	1x mSATA via mPCI-E	1x mSATA	1x mSATA	1x mSATA
	CFast	N/A	N/A	N/A	N/A
Expansion Slots	PCI Express / PCI bus	2x PCI-E (x16) (by ABP-IP701/ABP-IP702/ABP-IP703)	N/A	N/A	1x PCI-E (x8) + 1x PCI-E (x4)
	Mini PCI-E	1x Mini PCI-E slot	1x Mini PCI-E slot	4x Mini PCI-E slot	1x Mini PCI-E slot
Power	Power input	24V DC-input	24V DC-input	24V DC-input	24V DC-input
	Power Connector	3-pin DC-in terminal block	3-pin terminal block	3-pin terminal block	3-pin terminal block
	Power Protection	Reverse voltage	OVP, UVP, Reverse voltage protection	OVP, UVP, Reverse voltage protection	OVP, UVP, Reverse voltage protection
Mechanical	Dimensions	297.4mm(W) x 266.2mm(D) x 78.5mm(H)	275mm(W) x 140mm(D) x 70mm(H)	275mm(W) x 140mm(D) x 113mm(H)	275mm(W) x 140mm(D) x 113mm(H)
	Weight	3.7 kg	2.7kg	3.3kg	3.3kg
	Construction	SGCC	Aluminum & steel	Aluminum & steel	Aluminum & steel
	Chassis Color	Silver	Silver/Gray	Silver/Gray	Silver/Gray
	Mounting	Desktop or wall mount	Desktop & wall mount DIN-rail mount	Desktop & wall mount DIN-rail mount	Desktop & wall mount DIN-rail mount
Environmental	Operating Temperature	0°C to 55°C (32°F~131°F)	-10°C to 60°C (14°F~140°F) *With airflow -10°C to 50°C (14°F to 122°F) *without airflow	-10°C to 60°C (14°F~140°F) *With airflow -10°C to 50°C (14°F to 122°F) *without airflow	-10°C to 60°C (14°F~140°F) *With airflow -10°C to 50°C (14°F to 122°F) *without airflow
	Storage Temperature	-20°C~80°C (-4°F~176°F)	-20°C~80°C (-4°F~176°F)	-20°C~80°C (-4°F~176°F)	-20°C~80°C (-4°F~176°F)
	Certification	CE/FCC/LVD (Prescan only)	CE/FCC/LVD	CE/FCC/LVD	CE/FCC/LVD
	Page No.	p. 24 - 25	p. 26 - 27	p. 30 - 31	p. 32 - 33

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

Comparison Table







Models		MAI602-M4D80	AMI210	AMI210-PE
System	Processor	7th/6th Gen Intel® Core™ i7/i5/i3 Processors (Max. 35W TDP)	4th Gen Intel® Core™ DT i7/i5/i3 Processors (Max. 45W TDP)	4th Gen Intel® Core™ DT i7/i5/i3 Processors (Max. 45W TDP)
	PCH	Intel® Q170 PCH	Intel® Q87 PCH Intel® H81 PCH	Intel® Q87 PCH Intel® H81 PCH
	Memory	2x DDR4-2133 SO-DIMM	2x DDR3-1600 SO-DIMM	2x DDR3-1600 SO-DIMM
	Max. Memory	32GB	32GB	32GB
	Graphics	Intel® HD Graphics 530	Intel® HD Graphics 4600	Intel® HD Graphics 4600
I/O Interface	Display	1x DVI-I 1x DisplayPort	1x DVI-D, 1x VGA 1x DisplayPort, 1x HDMI	1x DVI-D, 1x VGA 1x DisplayPort, 1x HDMI
	Ethernet	1x Intel® I219LM Gigabit LAN PHY 1x Intel® I211AT Gigabit LAN	1x Intel® I218LM Gigabit LAN PHY (for AMI210AF) 1x Intel® I218V Gigabit LAN PHY (for AMI210EF) 1x Intel® I211AT Gigabit LAN	1x Intel® I218LM Gigabit LAN PHY (for AMI210AF-PE) 1x Intel® I218V Gigabit LAN PHY (for AMI210EF-PE) 1x Intel® I211AT Gigabit LAN
	Serial Port	1x RS232/422/485 (rear side) 1x RS232 (rear side) 2x RS232 (on riser card)	1x RS422/485 3x RS232	1x RS422/485 5x RS232
	USB	4x USB 3.0 (rear side) 2x USB 2.0 (on riser card) 1x USB 2.0 (on board)	AMI210AF: 4x USB 3.0, 2x USB 2.0 AMI210EF: 2x USB 3.0, 4x USB 2.0	AMI210AF-PE: 4x USB 3.0, 4x USB 2.0 AMI210EF-PE: 2x USB 3.0, 6x USB 2.0
	Audio	1x Line-out	1x Line-out, 1x MIC-in	1x Line-out, 1x MIC-in
	Digital I/O	GPIO 4-in & 4-out (optional)	4-in & 4-out (optional)	4-in & 4-out (optional)
Storage Interface	SATA HDD	2x 2.5" HDD or SSD	1x 2.5" HDD or SSD	2x 2.5" HDD or SSD
	mSATA/M.2	1x mSATA	1x mSATA	1x mSATA
	CFast	N/A	1x CFast socket	1x CFast socket
Expansion Slots	PCI Express / PCI bus	1x PCI-E (x8) for Isolated Digital I/O 48-in/32-out 1x PCI-E (x1) for 4-Axis Motion control	N/A	1x PCI-E (x8) + 1x PCI-E (x1)
	Mini PCI-E	1x Mini PCI-E slot	2x Mini PCI-E slot	2x Mini PCI-E slot
Power	Power input	24V DC-input	12V~24V DC-input	12V~24V DC-input
	Power Connector	3-pin terminal block DC-jack (optional)	3-pin terminal block DC-jack (optional)	3-pin terminal block DC-jack (optional)
	Power Protection	OVP, UVP, Reverse voltage protection	OVP, UVP, Reverse voltage protection	OVP, UVP, Reverse voltage protection
Mechanical	Dimensions	275mm(W) x 140mm(D) x 117mm(H)	210mm(W) x 265mm(D) x 71.4mm(H)	210mm(W) x 265mm(D) x 128.6mm(H)
	Weight	3.5 kg	3.6 kg	4.3 kg
	Construction	Aluminum & steel	Aluminum	Aluminum & steel
	Chassis Color	Sliver + Navy blue	Silver/Gray	Silver/Gray
	Mounting	Desktop or wall mounting (wall mount kit included) Side mounting DIN-rail mounting (optional)	Desktop & wall mount	Desktop & wall mount
Environmental	Operating Temperature	-10°C to 60°C (14°F~140°F) *With airflow -10°C to 50°C (14°F to 122°F) *without airflow	-10°C~45°C (14°F~113°F) (45W CPU) -10°C~50°C (14°F~122°F) (35W CPU)	-10°C~45°C (14°F~113°F) (45W CPU) -10°C~50°C (14°F~122°F) (35W CPU)
	Storage Temperature	-20°C to 80°C (-4°F to 176°F)	-20°C~80°C (-4°F~176°F)	-20°C~80°C (-4°F~176°F)
	Certification	CE/FCC/LVD	CE/FCC/LVD	CE/FCC/LVD
	Page No.	p. 22 - 23	p. 34 - 35	p. 36 - 37

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

Comparison Table







Models		AMI220	AMI221	AMI222
System	Processor	7th/6th Gen Intel® Core™ DT i7/i5/i3 Processors (Max. 35W TDP)	7th/6th Gen Intel® Core™ DT i7/i5/i3 Processors (Max. 35W TDP)	7th/6th Gen Intel® Core™ DT i7/i5/i3 Processors (Max. 35W TDP)
	PCH	Intel® Q170 PCH Intel® H110 PCH	Intel® Q170 PCH TDP Intel® H110 PCH TDP	Intel® Q170 PCH TDP Intel® H110 PCH TDP
	Memory	2x 4GB DDR4-2400 SO-DIMM	2x 4GB DDR4-2400 SO-DIMM	2x 4GB DDR4-2400 SO-DIMM
	Max. Memory	32GB	32GB	32GB
	Graphics	Intel® HD Graphics 530	Intel® HD Graphics 530	Intel® HD Graphics 530
I/O Interface	Display	1x DVI-D, 1x VGA 2x DisplayPort	1x DVI-D, 1x VGA 2x DisplayPort	1x DVI-D, 1x VGA 2x DisplayPort
	Ethernet	1x Intel® I219LM Gigabit LAN PHY 1x Intel® I211AT Gigabit LAN	1x Intel® I219LM Gigabit LAN PHY 1x Intel® I211AT Gigabit LAN	1x Intel® I219LM Gigabit LAN PHY 1x Intel® I211AT Gigabit LAN
	Serial Port	1x RS232/RS422/485 3x RS232	1x RS232/RS422/485 5x RS232	1x RS232/RS422/485 5x RS232
	USB	4x USB 3.0 4x USB 2.0	4x USB 3.0 6x USB 2.0	4x USB 3.0 6x USB 2.0
	Audio	1x Line-out, 1x MIC-in	1x Line-out, 1x MIC-in	1x Line-out, 1x MIC-in
	Digital I/O	4-in & 4-out (optional)	4-in & 4-out (optional)	4-in & 4-out (optional)
Storage Interface	SATA HDD	1x 2.5" HDD or SSD	2x 2.5" HDD or SSD	2x 2.5" HDD or SSD
	mSATA/M.2	2x mSATA (AMI220AF) 1x mSATA (AMI220EF)	2x mSATA (AMI221AF) 1x mSATA (AMI221EF)	2x mSATA (AMI222AF) 1x mSATA (AMI222EF)
	CFast	1x CFast socket (by certain systems)	1x CFast socket (by certain systems)	1x CFast socket (by certain systems)
Expansion	PCI Express / PCI bus	N/A	1x PCI-E (x8) + 1x PCI-E (x1) or 1x PCI-E (x16) + 1x PCI	1x PCI-E (x8) + 1x PCI-E (x1) or 1x PCI-E (x16) + 1x PCI
Internal Expansion	Mini PCI-E	2x Mini PCI-E slot	2x Mini PCI-E slot	4x Mini PCI-E slot
	M.2	N/A	N/A	N/A
Power	Power input	12V~24V DC-input	12V~24V DC-input	12V~24V DC-input
	Power Connector	3-pin terminal block DC-jack (optional)	3-pin terminal block DC-jack (optional)	3-pin terminal block DC-jack (optional)
	Power Protection	OVP, UVP, Reverse voltage protection	OVP, UVP, Reverse voltage protection	OVP, UVP, Reverse voltage protection
Mechanical	Dimensions	210mm(W) x 265mm(D) x 71.4mm(H)	210mm(W) x 265mm(D) x 108.6mm(H)	210mm(W) x 265mm(D) x 128.6mm(H)
	Weight	3.6 kg	4.3 kg	4.3 kg
	Construction	Aluminum	Aluminum & steel	Aluminum & steel
	Chassis Color	Silver/Gray	Silver/Gray	Silver/Gray
	Mounting	Desktop & wall mount	Desktop & wall mount	Desktop & wall mount
Environmental	Operating Temperature	-10°C~50°C (14°F~122°F)	-10°C~50°C (14°F~122°F)	-10°C~50°C (14°F~122°F)
	Storage Temperature	-20°C~80°C (-4°F~176°F)	-20°C~80°C (-4°F~176°F)	-20°C~80°C (-4°F~176°F)
	Certification	CE/FCC/LVD/CCC	CE/FCC/LVD	CE/FCC/LVD
	Page No.	p. 38 - 39	p. 40 - 41	p. 42 - 43

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

Comparison Table






Models		AMI230	AMI231	AMI232	CMI300-988
System	Processor	9th/8th Gen Intel® Core™ i7/i5/i3 Desktop Processors	9th/8th Gen Intel® Core™ i7/i5/i3 Desktop Processors (35W TDP)	9th/8th Gen Intel® Core™ i7/i5/i3 Desktop Processors (35W TDP)	AMD Ryzen™ Embedded V1000 V1807B Series
	PCH	Intel® Q370 PCH	Intel® Q370 PCH	Intel® Q370 PCH	N/A
	Memory	2x DDR4-2666/2400 SO-DIMM	2x 8GB DDR4-2666/2400 SO-DIMM	2 x 8GB DDR4-2666/2400 SO-DIMM	2x 4GB DDR4-2400 SO-DIMM
	Max. Memory	32GB	32GB	32GB	32GB
	Graphics	Intel® HD Graphics	Intel® HD Graphics	Intel® HD Graphics	AMD V-series APU built-in GPU
I/O Interface	Display	1x HDMI+ DisplayPort 1x DVI-D	1x HDMI+ DisplayPort 1x DVI-D	1x HDMI+ DisplayPort 1x DVI-D	1x HDMI+ DisplayPort
	Ethernet	1x Intel® I219LM GbE PHY 1x Intel® I210IT Gigabit LAN 1x Intel® I211AT Gigabit LAN 1x Intel® I211AT Gigabit LAN *2 supports PoE+*	1x Intel® I219LM GbE PHY 1x Intel® I210IT Gigabit LAN 1x Intel® I211AT Gigabit LAN 1x Intel® I211AT Gigabit LAN *2 supports PoE+*	1x Intel® I219LM GbE PHY 1x Intel® I210IT Gigabit LAN 1x Intel® I211AT Gigabit LAN 1x Intel® I211AT Gigabit LAN *2 supports PoE+*	2x Intel® I211AT Gigabit LAN
	Serial Port	1x RS232/RS422/485 3x RS232	1x RS232/RS422/485 3x RS232	1x RS232/RS422/485 3x RS232	2x RS232/RS422/485 2x RS232
	USB	4x USB 3.1 4x USB 3.1	4x USB 3.1 4x USB 3.1	4x USB 3.1 4x USB 3.1	4x USB 3.1
	Audio	1x Line-out, 1x MIC-in	1x Line-out, 1x MIC-in	1x Line-out, 1x MIC-in	1x Line-out, 1x Line-in, 1x MIC-in
	Digital I/O	4-in & 4-out (optional)	4-in & 4-out (optional)	4-in & 4-out (optional)	N/A
Storage Interface	SATA HDD	1x 2.5" HDD or SSD	2x 2.5" HDD or SSD	2x 2.5" HDD or SSD	N/A
	mSATA/M.2	2x M.2 (B-Key, M-Key)	2x M.2 (B-Key, M-Key)	2x M.2 (B-Key, M-Key)	1x M.2 (M-KEY)
	CFast	N/A	N/A	N/A	N/A
Expansion	PCI Express / PCI bus	N/A	1x PCI-E (x16) 1x PCI-E (x4)	1x PCI-E (x16) 1x PCI-E (x4)	N/A
Internal Expansion	Mini PCI-E	N/A	N/A	N/A	N/A
	M.2	1x M.2 (E-Key)	1x M.2 (E-Key)	1x M.2 (E-Key)	N/A
Power	Power input	12V or 18V~24V DC-input	12V or 18V~24V DC-input	12V or 18V~24V DC-input	12V~24V DC-input
	Power Connector	5-pin DC-in terminal block	5-pin DC-in terminal block	5-pin DC-in terminal block	3-pin terminal block DC-jack (optional)
	Power Protection	OVP, UVP, Reverse voltage protection	OVP, UVP, Reverse voltage protection	OVP, UVP, Reverse voltage protection	N/A
Mechanical	Dimensions	210mm(W) x 265mm(D) x 77mm(H)	210mm(W) x 285mm(D) x 109mm(H)	210mm(W) x 285mm(D) x 128.6mm(H)	200mm(W) x 200mm(D) x 60mm(H)
	Weight	4 kg	4.5 kg	4.9 kg	1.8 kg
	Construction	Aluminum & steel	Aluminum & steel	Aluminum & steel	Aluminum & steel
	Chassis Color	Silver/Gray	Silver/Gray	Silver/Gray	Black
	Mounting	Desktop & wall mount	Desktop or wall mount	Desktop or wall mount	Desktop & wall mount Optional VESA mount kit
Environmental	Operating Temperature	-20°C~70°C (-4°F~158°F) (35W CPU)	-20°C to 70°C (-4°F~158°F) (for 35W CPU)	-20°C to 70°C (-4°F~158°F) (for 35W CPU)	0°C~45°C (32°F~113°F)
	Storage Temperature	-20°C~80°C (-4°F~176°F)	-20°C~80°C (-4°F~176°F)	-20°C~80°C (-4°F~176°F)	-20°C~80°C (-4°F~176°F)
	Certification	CE/FCC/LVD	CE/FCC/LVD	CE/FCC/LVD	CE/FCC/LVD
	Page No.	p. 44 - 45	p. 46 - 47	p. 48 - 49	p. 68 - 69

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

Comparison Table







Models		ASB200-908	ASB200-909	ASB200-915	ASB200-916	ASB200-918
System	Processor	4th Gen Intel® Core™ U-series Processor	5th Gen Intel® Core™ U-series Processor	6th Gen Intel® Core™ U-series Processor	7th Gen Intel® Core™ U-series Processor	AMD Ryzen™ Embedded V1000 /R1000 Series
	PCH	N/A	N/A	N/A	N/A	N/A
	Memory	2x DDR3L-1600 SO-DIMM	2x DDR3L-1600 SO-DIMM	2x DDR3L-1600 SO-DIMM	2x DDR3L-1600 SO-DIMM	2x 8GB DDR4-2666 SO-DIMM
	Max. Memory	16GB	16GB	16GB	32GB	32GB
	Graphics	Intel® HD Graphics 5000/4400	Intel® HD Graphics 6000/5500	Intel® HD Graphics 520	Intel® HD Graphics 620	AMD Raden™ Vega integrated
I/O Interface	Display	1x DVI-I	1x DVI-I	1x DisplayPort	1x DisplayPort, 1x HDMI	2x HDMI
	Ethernet	1x Intel® I218LM Gigabit LAN PHY 1x Intel® I211AT Gigabit LAN	1x Intel® I218LM Gigabit LAN PHY 1x Intel® I211AT Gigabit LAN	1x Intel® I219LM Gigabit LAN PHY 1x Intel® I211AT Gigabit LAN	1x Intel® I219LM Gigabit LAN PHY 1x Intel® I211AT Gigabit LAN	2x Intel®1211AT PCI-E Gigabit LAN
	Serial Port	1x RS232/RS422/485 3x RS232	1x RS232/RS422/485 3x RS232	1x RS232/RS422/485 3x RS232	1x RS232/RS422/485 3x RS232"	1x RS232/422/485
	USB	2x USB 3.0 2x USB 2.0	2x USB 3.0 2x USB 2.0	1x USB 3.1 Type-C 4x USB 3.0 2x USB 2.0	4x USB 3.0 2x USB 2.0	4 x USB 3.1 1x USB2.0
	Audio	N/A	N/A	1x Line-out, 1x Line-in, 1x MIC-in	1x Line-out, 1x Line-in, 1x MIC-in	1x Audio Jack for Line-out/ Line-in/ MIC-in
	Digital I/O	N/A	N/A	4-in & 4-out	4-in & 4-out	4-in & 4-out
Storage Interface	SATA HDD	1x 2.5" HDD or SSD	1x 2.5" HDD or SSD	1x 2.5" HDD or SSD	1x 2.5" HDD or SSD	1x 2.5" HDD or SSD
	mSATA/M.2	1x mSATA	1x mSATA	1x mSATA	1x mSATA	1x M.2 (M-Key)
	CFast	1x CFast socket	1x CFast socket	N/A	N/A	N/A
Expansion Slots	PCI Express / PCI bus	N/A	N/A	N/A	N/A	N/A
	Mini PCI-E	2x Mini PCI-E slot	2x Mini PCI-E slot	1x Mini PCI-E slot	1x Mini PCI-E slot	N/A
Power	Power input	12V~24V DC-input	12V~24V DC-input	12V~24V DC-input	12V~24V DC-input	12V~24V DC-input
	Power Connector	3-pin terminal block DC-jack (optional)	3-pin terminal block DC-jack (optional)	3-pin terminal block DC-jack (optional)	3-pin terminal block DC-jack (optional)	3-pin DC-in terminal block DC-jack (optional)
	Power Protection	N/A	N/A	N/A	N/A	N/A
Mechanical	Dimensions	180mm(W) x 150mm(D) x 66mm(H)	180mm(W) x 150mm(D) x 66mm(H)	180mm(W) x 150mm(D) x 66mm(H)	180mm(W) x 150mm(D) x 66mm(H)	240mm (W) x 162mm (D) x 42mm (H)
	Weight	1.8 kg	1.8 kg	1.8 kg	1.8 kg	1.7 kg
	Construction	Aluminum & steel	Aluminum & steel	Aluminum & steel	Aluminum & steel	Aluminum & steel
	Chassis Color	Black	Black	Black	Black	Black
	Mounting	Desktop & wall mount Optional VESA mount kit	Desktop & Wall mount Optional VESA mount kit	Desktop & wall mount Optional VESA mount kit	Desktop & wall mount Optional VESA mount kit	Desktop or wall mount Optional VESA mount kit
Environmental	Operating Temperature	0°C~45°C (32°F~113°F)	0°C~45°C (32°F~113°F)	-10°C~50°C (14°F~122°F)	-10°C~50°C (14°F~122°F)	0°C~45°C (32°F~113°F)
	Storage Temperature	-20°C~80°C (-4°F~176°F)	-20°C~80°C (-4°F~176°F)	-20°C~80°C (-4°F~176°F)	-20°C~80°C (-4°F~176°F)	-20°C ~80°C (-4°F~176°F)
	Certification	CE/FCC/LVD	CE/FCC/LVD/CCC	CE/FCC/LVD	CE/FCC/LVD	CE/LVD/FCC
	Page No.	p. 70	p. 71	p. 72	p. 73	p. 74 - 75

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Comparison Table







Models		ASB200-919	CSB200-818	CSB200-822	CSB200-897	CSB200-898
System	Processor	8th Gen Intel® Core™ U-Series Processor	IIntel® Atom™ Processors E3930 & Pentium® N4200 / Celeron® N3350	Intel® Pentium® Silver Processor J5005 / Celeron® Processor J4005	Intel® Atom™ Processors E3845/ E3827/ E3815	Intel® Atom™ Processor E3825/ E3815
	PCH	N/A	N/A	N/A	N/A	N/A
	Memory	2x 8GB DDR4-2666 SO-DIMM	1x DDR3L-1866 SO-DIMM	1x DDR4-2400 SO-DIMM	2x DDR3L-1333 SO-DIMM	1x DDR3L-1333 SO-DIMM
	Max. Memory	32GB	8GB	8GB	8GB	8GB
	Graphics	Intel® UHD Graphics 610	Intel® HD Graphics 505	Intel® UHD Graphics 605	Intel® HD Graphics Gen7 w/ 4EUs	Intel® HD Graphics Gen7 w/ 4EUs
I/O Interface	Display	2x DisplayPort (1 by Type-C)	1x HDMI	1x HDMI, 1x DP	1x DisplayPort, 1x VGA	1x DisplayPort, 1x VGA
	Ethernet	1x Intel® I219LM Gigabit LAN PHY for IB919AF Series (Intel® I219V Gigabit LAN PHY for IB919EF Series) 1x Intel® I211AT PCI-E Gigabit LAN	2x Intel® I210IT Gigabit LAN (For E-series CPU) 2x Intel® I210AT Gigabit LAN (For N-series CPU)	2x Intel® I211IT Gigabit LAN	2x Intel® I210IT Gigabit LAN	1x Intel® I210IT Gigabit LAN
	Serial Port	1x RS232/422/485	1x RS232/RS422/485 3x RS232	1x RS232/RS422/485 3x RS232	1x RS232/RS422/485 1x RS232	1x RS232/RS422/485 1x RS232
	USB	4x USB3.1	4x USB 3.0 2x USB 2.0	4x USB 3.0 2x USB 2.0	1x USB 3.0 3x USB 2.0	1x USB 3.0 3x USB 2.0
	Audio	N/A	1x Line-out, 1x MIC-in	1x Line-out, 1x MIC-in	1x Line-out, 1x MIC-in	1x Line-out, 1x MIC-in
	Digital I/O	4-in & 4-out	N/A	N/A	N/A	N/A
Storage Interface	SATA HDD	N/A	1x 2.5" HDD or SSD	1x 2.5" HDD or SSD	1x 2.5" HDD or SSD	1x 2.5" HDD or SSD
	mSATA	1x M.2 (M-Key)	1x mSATA	1x mSATA	1x mSATA	1x mSATA
	CFast	N/A	N/A	N/A	N/A	N/A
Expansion Slots	PCI Express / PCI bus	N/A	N/A	N/A	N/A	N/A
	Mini PCI-E/ M.2	1x M.2 (E-Key)	2x Mini PCI-E slot	1x M.2 (B-KEY) 1x M.2 (E-KEY)	2x Mini PCI-E slot	3x Mini PCI-E slot
Power	Power input	12V~24V DC-input	12V~24V DC-input	12V DC-input	12V~24V DC-input	12V DC-input
	Power Connector	3-pin DC-in terminal block DC-jack (optional)	3-pin terminal block DC-jack (optional)	3-pin terminal block(optional) DC-jack	3-pin terminal block DC-jack (optional)	3-pin terminal block DC-jack (optional)
	Power Protection	N/A	N/A	N/A	N/A	N/A
Mechanical	Dimensions	180mm(W) x 150mm(D) x 46.5mm(H)	172mm(W) x 111.6mm(D) x 53mm(H)	172mm(W) x 111.6mm(D) x 53mm(H)	172mm(W) x 111.6mm(D) x 52mm(H)	172mm(W) x 111.6mm(D) x 53mm(H)
	Weight	1.5kg	1.1 kg	1.1 kg	1.1 kg	1.1 kg
	Construction	Aluminum & steel	Aluminum & steel	Aluminum & steel	Aluminum & steel	Aluminum & steel
	Chassis Color	Black	Black	Black	Black	Black
	Mounting	Desktop or wall mount	Desktop & wall mount	Desktop & wall mount	Desktop & wall mount	Desktop & wall mount
Environmental	Operating Temperature	0°C~45°C (32°F~113°F)	-30°C~65°C (22°F~149°F) For E3940 (With SSD) *With air flow -10°C ~45°C(14°C~113°C) For N-Series CPU (With HDD) *With air flow	0°C~45°C (14°F~113°F) (With HDD) *With air flow 0°C~50°C (32°F~122°F) (With SSD) *With air flow	-30°C~60°C (22°F~140°F)	-30°C~65°C (22°F~149°F)
	Storage Temperature	-20°C ~80°C(-4°F~176°F)	-40°C~85°C (-40°F~185°F)	-40°C~85°C (-40°F~185°F)	-40°C~85°C (-40°F~185°F)	-40°C~85°C (-40°F~185°F)
	Certification	CE/LVD/FCC	CE/FCC/LVD	CE/FCC/LVD	CE/FCC/LVD/CCC	CE/FCC/LVD
	Page No.	p. 76 - 77	p. 78	p. 79	p. 80	p. 81

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AGS100/AGS100T

IoT Gateway Fanless System
Ultra-Compact Fanless System with
Intel® Atom™ x7/x5, Pentium® & Celeron® Processors





Rear I/O



Features

- Intel® Atom™ x7-E3950/x5-E3940/x5-E3930 & Pentium® N4200 / Celeron® N3350 Series Processors
- Over/Under/Reverse voltage protection
- Wide-range operating temperature from -40°C to 70°C
- 9V~36V DC wide-range power input
- Rugged and fanless design
- Supports DIN-rail mount & wall mount & TPM2.0 (AGS100T Only)
- 2x serial ports (RS232/422/485)

Specifications

System Mainboard	IB801/ IB802T (F-1 Stepping)
CPU Type	Intel® Atom™ x7-E3950/x5-E3940/x5-E3930 & Pentium® N4200/ Celeron® N3350 Series Processors
System Speed	Up to 2.5GHz
Memory	1x 4GB DDR3L-1866 SO-DIMM, Max. 8GB
Construction	Aluminum & steel
Chassis Color	Sliver (aluminum)
Rear Panel External I/O	1x DVI-I + 1x DisplayPort 4x USB 3.0 ports 2x RJ45 Gigabit Ethernet port 3x LED indicators (HDD, WLAN, WWAN) 1x power button with green LED (Sliver power button with Green LED for AGS100, Black power button with Blue LED for AGS100T) 1x 3-pin DC-in terminal block for 9-36V 1x Antenna hole for WLAN module
Left Panel External I/O	2x RS232/422/485 port for COM#1/COM#2 1x Antenna hole for WLAN module 1x Line-out (AGS100 for 2W mono speaker, AGS100T for stereo output)
Right Panel External I/O	1x SIM card slot
Expansion Slots	1x Full-size Mini PCI-E socket (USB 2.0 + PCI-E + SATA) 1x 2230 M.2 E-Key socket for WLAN & BT (USB 2.0 + PCI-E) 1x 3042 M.2 B-Key socket for WWAN & SSD (USB 2.0 + SATA)
Storage	1x mSATA socket (Mini-PCI-E) 1x 2242 M.2 B-Key socket for SSD
Mounting	DIN-rail mounting (DIN-rail mount kit included) Desktop or wall mounting (wall mount kit included)
Dimensions	160mm (W) x 110mm (D) x 44mm (H) 6.3" (W) x 4.33" (D) x 1.73" (H)
Weight	1kg
Operating Temperature	-40°C~70°C (-40°F~158°F) (For E-series CPU) -20°C~60°C (-4°F~140°F) (For N-series CPU)
Storage Temperature	-40°C ~ 85°C (-40°F~185°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	Operatiing: 2.0 grms / 5~500Hz / random operation (with IEC 60068-2-64) Non-Operating: 3.0 grms / 5~500Hz / random operation (with IEC 60068-2-64)
Shock	Operating : 30G/11 ms Duration (with MIL-STD-810G) Non-operating : 40G/11 ms Duration (with MIL-STD-810G)
Certification	CE / LVD / FCC Class B / CCC (AGS100 Only) / UL

Ordering Information

AGS100-I50/ AGS100T-I50	Fanless DIN-rail System supports TPM2.0 (AGS100T Series only) w/ Intel® Atom™ Processor x7-E3950, 2x COM, 1x 4GB DDR3L industrial-grade memory, 1x 64GB MLC industrial-grade mSATA SSD, w/o power adaptor
AGS100-I40/ AGS100T-I40	Fanless DIN-rail System supports TPM2.0 (AGS100T Series only) w/ Intel® Atom™ Processor x5-E3940, 2x COM, 1x 4GB DDR3L industrial-grade memory, 1x 64GB MLC industrial-grade mSATA SSD, w/o power adaptor
AGS100-I30/ AGS100T-I30	Fanless DIN-rail System supports TPM2.0 (AGS100T Series only) w/ Intel® Atom™ Processor x5-E3930, 2x COM, 1x 4GB DDR3L industrial-grade memory, 1x 64GB MLC industrial-grade mSATA SSD, w/o power adaptor
AGS100-420/ AGS100T-420 (MOQ)	Fanless DIN-rail System supports TPM2.0 (AGS100T Series only) w/ Intel® Pentium® Processor N4200, 2x COM, 1x 4GB DDR3L industrial-grade memory, 1x 64GB MLC industrial-grade mSATA SSD, w/o power adaptor
AGS100-335/ AGS100T-335	Fanless DIN-rail System supports TPM2.0 (AGS100T Series only) w/ Intel® Celeron® Processor N3350, 2x COM, 1x 4GB DDR3L industrial-grade memory, 1x 64GB MLC (industrial-grade) mSATA SSD, w/o power adaptor
60W power adaptor (optional)	60W (12V@5A) power adaptor (bare wire type) Compatible with IEC62368-1/EN62368-1
Optional Accessories	WiFi/BT antenna kit, 4G/LTE antenna kit, GPS antenna kit

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

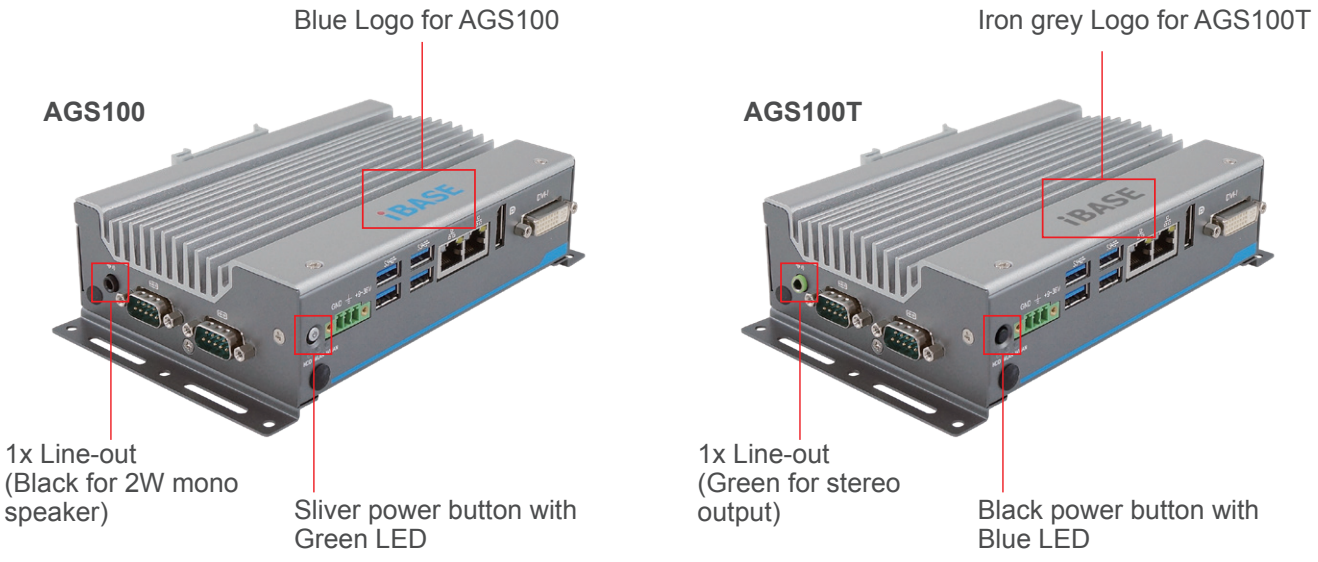
AGS100/AGS100T

IoT Gateway Fanless System
Ultra-Compact Fanless System with
Intel® Atom™ x7/x5, Pentium® & Celeron® Processors

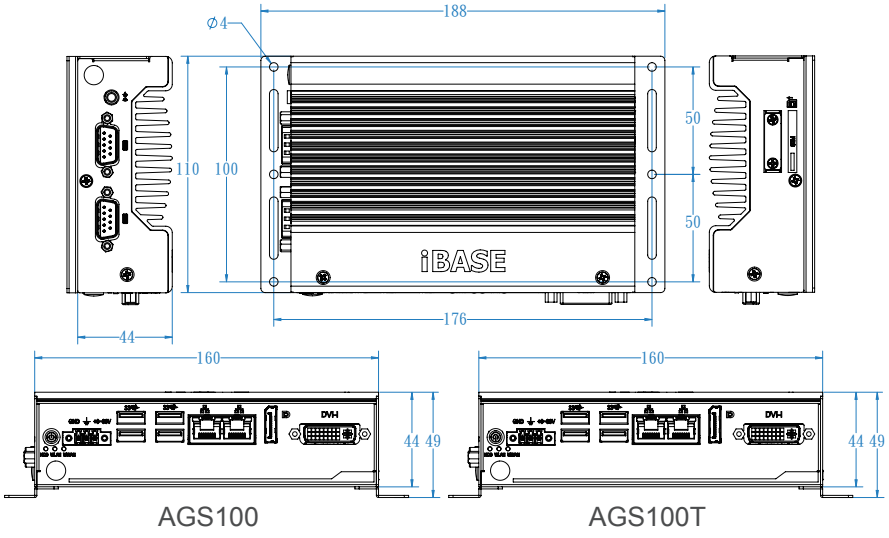
Intel® Entry Processor Ultra Low Power Reference Table

Processor Number	Intel® Pentium® Processors - 14 nm Apollo-Lake SoC Platform	Intel® Celeron® Processors - 14 nm Apollo-Lake SoC Platform	Intel® Atom™ Processors - 14nm Apollo-Lake-I SoC Platform		
	N4200	N3350	x7-E3950	x5-E3940	x5-E3930
Base Freq (GHz)	1.1	1.1	1.6	1.6	1.3
Intel® Turbo Boost Technology 2.0 (GHz)	2.5	2.4	2.0	1.8	1.8
Last Level Cache	2M	2M	2M	2M	2M
Cores/Threads	4/4	2/2	4/4	4/4	2/2
Memory Speed (DDR3L)	1866	1600	1866	1866	1866
TDP	6W	6W	12W	9.5W	6.5W

Product Appearance



Dimensions and Drawing



DIN-rail Mounting



AGS102/AGS102T

IoT Gateway Fanless System
Ultra-Compact Fanless System with
Intel® Atom™ x7/x5, Pentium® & Celeron® Processors




Rear I/O



Features

- Intel® Atom™ x7-E3950/x5-E3940/x5-E3930 & Pentium® N4200 / Celeron® N3350 Series Processors
- GPIO 4-in & 4-out with isolation function
- Over/Under/Reverse voltage protection
- Wide-range operating temperature from -40°C to 70°C
- 9V~36V DC wide-range power input
- Rugged and fanless design
- Supports DIN-rail mount & wall mount & TPM2.0 (AGS102T Only)
- AGS102T: 4x serial ports (RS232/422/485)
  AGS102: 2x RS232/422/485 ports, 2x RS232 ports

Specifications

System Mainboard	IB801/ IB802T (F-1 Stepping)
CPU Type	Intel® Atom™ x7-E3950/x5-E3940/x5-E3930 & Pentium® N4200/ Celeron® N3350 Series Processors
System Speed	Up to 2.5GHz
Memory	1x 4GB DDR3L-1866 SO-DIMM, Max. 8GB
Construction	Aluminum & steel
Chassis Color	Sliver (aluminum)
Rear Panel External I/O	1x DVI-I + 1x DisplayPort connector 4x USB 3.0 ports, 1x USB 2.0 port 2x RJ45 Gigabit Ethernet port 3x LED indicators (HDD, WLAN, WWAN) 1x power button with Green LED (Sliver power button with Green LED for AGS102, Black power button with Blue LED for AGS102T) 1x 3-pin DC-in terminal blo ck for 9V-36V 1x Antenna hole for WLAN module 2x RS232/422/485 ports for COM#3/COM#4 (AGS102: 2x RS232 ports for COM#3/COM#4) 1x 4-in & 4-out GPIO with isolation
Left Panel External I/O	2x RS232/422/485 ports for COM#1/COM#2 1x Antenna hole for WLAN module 1x Line-out (AGS102 supports 2W mono speaker, AGS102T supports stereo output)
Right Panel External I/O	1x SIM card slot
Expansion Slots	1x Full-size Mini PCI-E socket (USB 2.0 + PCI-E + SATA) 1x 2230 M.2 E-Key socket for WLAN & BT (USB 2.0 + PCI-E) 1x 3042 M.2 B-Key socket for WWAN & SSD (USB 2.0 + SATA)
Storage	1x mSATA socket (Mini-PCI-E) 1x 2242 M.2 B-Key socket for SSD
Mounting	DIN-rail mounting (DIN-rail mount kit included) Desktop or wall mounting (wall mount kit included)
Dimensions	160mm (W) x 110mm (D) x 44mm (H) 6.3" (W) x 4.33" (D) x 1.73" (H)
Weight	1kg
Operating Temperature	-40°C~70°C (-40°F~158°F) (For E-series CPU) -20°C~60°C (-4°F~140°F) (For N-series CPU)
Storage Temperature	-40°C ~ 85°C (-40°F~185°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	Operatiing: 2.0 grms / 5~500Hz / random operation (with IEC 60068-2-64) Non-Operating: 3.0 grms / 5~500Hz / random operation (with IEC 60068-2-64)
Shock	Operating : 30G/11 ms Duration (with MIL-STD-810G) Non-operating : 40G/11 ms Duration (with MIL-STD-810G)
Certification	CE / LVD / FCC Class B / CCC (AGS102 Only) / UL

Ordering Information

AGS102-I50/ AGS102T-I50	Fanless DIN-rail System supports TPM2.0 (AGS102T Series only) w/ Intel® Atom™ Processor x7-E3950, 4x COM, 1x 4GB DDR3L industrial-grade memory, 1x 64GB MLC industrial-grade mSATA SSD, w/o power adaptor
AGS102-I40/ AGS102T-I40	Fanless DIN-rail System supports TPM2.0 (AGS102T Series only) w/ Intel® Atom™ Processor x5-E3940, 4x COM, 1x 4GB DDR3L industrial-grade memory, 1x 64GB MLC industrial-grade mSATA SSD, w/o power adaptor
AGS102-I30/ AGS102T-I30	Fanless DIN-rail System supports TPM2.0 (AGS102T Series only) w/ Intel® Atom™ Processor x5-E3930, 4x COM, 1x 4GB DDR3L industrial-grade memory, 1x 64GB MLC industrial-grade mSATA SSD, w/o power adaptor
AGS102-420/ AGS102T-420 (MOQ)	Fanless DIN-rail System supports TPM2.0 (AGS102T Series only) w/ Intel® Pentium® Processor N4200, 4x COM, 1x 4GB DDR3L industrial-grade memory, 1x 64GB MLC industrial-grade mSATA SSD, w/o power adaptor
AGS102-335/ AGS102T-335	Fanless DIN-rail System supports TPM2.0 (AGS102T Series only) w/ Intel® Celeron® Processor N3350, 4x COM, 1x 4GB DDR3L industrial-grade memory, 1x 64GB MLC industrial-grade mSATA SSD, w/o power adaptor
60W power adaptor (optional)	60W (12V@5A) power adaptor, bare wire type Compatible with IEC62368-1/EN62368-1
Optional Accessories	WiFi/BT antenna kit, 4G/LTE antenna kit, GPS antenna kit

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

AGS102/AGS102T

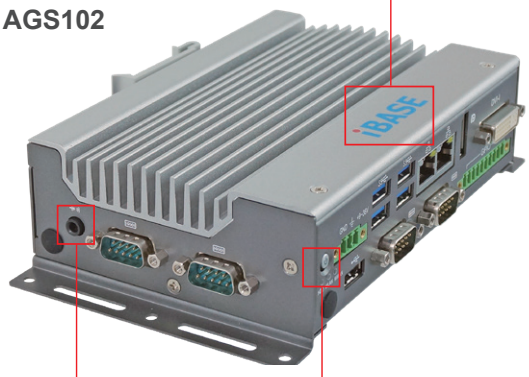
IoT Gateway Fanless System
Ultra-Compact Fanless System with
Intel® Atom™ x7/x5, Pentium® & Celeron® Processors

Intel® Entry Processor Ultra Low Power Reference Table

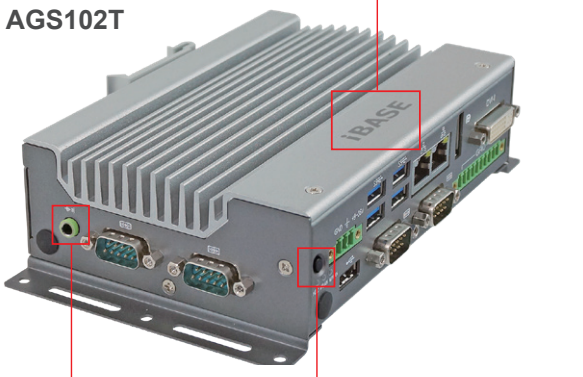
Processor Number	Intel® Pentium® Processors - 14 nm Apollo-Lake SoC Platform	Intel® Celeron® Processors - 14 nm Apollo-Lake SoC Platform	Intel® Atom™ Processors - 14nm Apollo-Lake-I SoC Platform		
	N4200	N3350	x7-E3950	x5-E3940	x5-E3930
Base Freq (GHz)	1.1	1.1	1.6	1.6	1.3
Intel® Turbo Boost Technology 2.0 (GHz)	2.5	2.4	2.0	1.8	1.8
Last Level Cache	2M	2M	2M	2M	2M
Cores/Threads	4/4	2/2	4/4	4/4	2/2
Memory Speed (DDR3L)	1866	1600	1866	1866	1866
TDP	6W	6W	12W	9.5W	6.5W

Product Appearance

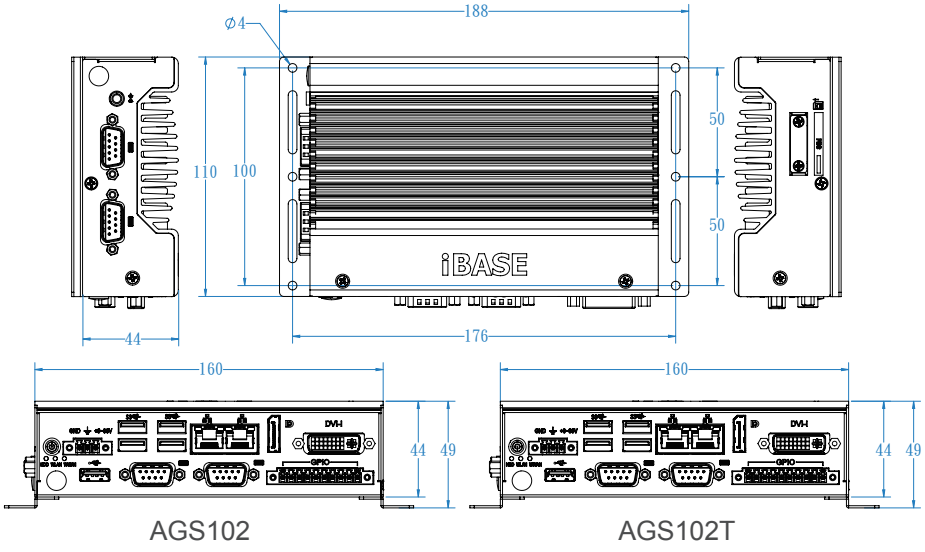
AGS102



AGS102T



Dimensions and Drawing



DIN-rail Mounting



MAI602-M4D80

Motion Control System
Fanless Motion Control System with
7th/6th Gen Intel® Core™ i7/i5/i3 Desktop Processors



TAIWAN EXCELLENCE 2019

Features

- Fanless motion control system with IBASE MB300-TLP customized board
- 7th/6th Gen Intel® Core™ i7/i5/i3 Processors
- 2MB MRAM module (optional)
- Front removable drive bay for HDD/SSD (supports RAID 0/1)
- 4 Axis Pulse Command Motion Control
- 80 ch. Isolated Digital I/O (48 ch. DI / 32 ch. DO)
- Over/Under/Reverse voltage protection
- Supports DIN-rail mount & wall mount
- iSMART, iAMT (11.6)

Specifications

System Mainboard	MB300-TLP with Intel® Q170 PCH
CPU Type	7th/6th Gen Intel® Core™ i7/i5/i3 desktop Processors
System Speed	Up to 3.4GHz
Memory	2x DDR4-2133 SO-DIMM, Max. 32GB
Construction	Aluminum & steel
Chassis Color	Sliver + navy blue
Front Panel External I/O	2x Antenna hole for WLAN module
Rear Panel External I/O	1x DVI-I + 1x DisplayPort connector 1x Audio jack for Line-out 4x USB 3.0 ports, 2x USB 2.0 ports 1x Red HDD LED, 1x green power LED 2x Error LED by programming 1x Power button 1x 2-pin terminal block for external power button 1x RS232/422/485 port for COM#1 1x RS232 port for COM#2 2x RJ45 Gigabit Ethernet port 1x 3-pin DC-in terminal block for 24V
Expansion Slots	1x Mini PCI-E sockets (full-size) 1x 4 Axis Pulse Command Motion Control 1x 80 ch. Isolated Digital I/O (48 ch. DI / 32 ch. DO)
Storage	2x 2.5" SSD + 1x mSATA socket
Mounting	Desktop or wall mounting (wall mount kit included) Side mounting DIN-rail mounting (optional)
Dimensions	275mm (W) x 140mm (D) x 117mm (H) 10.83" (W) x 5.51" (D) x 4.61" (H)
Operating Temperature	-10°C to 60°C (14°F~140°F)*With airflow -10°C to 50°C (14°F to 122°F) without airflow
Storage Temperature	-20°C to 80°C (-4°F to 176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	Non-Operating: 1.0 grms / 5~500Hz / random operation Operatiing: 0.25 grms / 5~500Hz / random operation
Certification	CE / LVD / FCC Class B

Ordering Information

MAI602-M4D80	Fanless System w/ Intel® Core™ i5-6500TE (2.3GHz) CPU, 2x 4GB DDR4 SO-DIMM, 1x 2.5" 128GB MLC industrial-grade SSD, IP302 riser card, 4 Axis Motion card, 80 ch. Isolated Digital I/O card, w/o power adaptor
Power adaptor	180W(24V @7.5A) power adaptor, bare wire type Compatible with IEC62368-1/EN62368-1

Recommended Processor list

Model	TDP	Base Freq	Turbo Freq	Cache	Cores / Threads
i7-7700T	35W	2.9 GHz	3.8 GHz	8M	4/8
i7-6700TE	35W	2.4 GHz	3.4 GHz	8M	4/8
i5-7500T	35W	2.7 GHz	3.3 GHz	6M	4/4
i5-6500TE	35W	2.3 GHz	3.3 GHz	6M	4/4
i3-7101TE	35W	3.4 GHz	N/A	3M	2/4
i3-6100TE	35W	2.7 GHz	N/A	4M	2/4
G4400TE	35W	2.9 GHz	N/A	3M	2/2
G3900TE	35W	2.6 GHz	N/A	2M	2/2

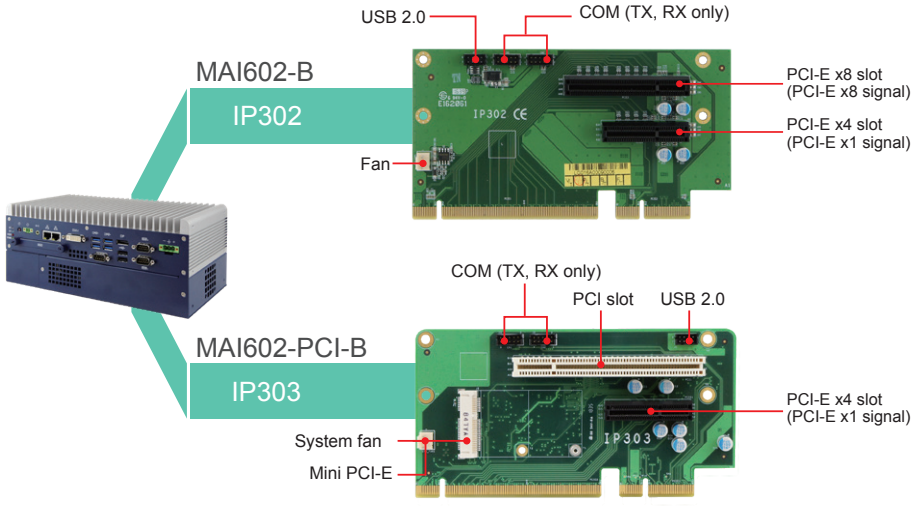
Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

MAI602-M4D80

Motion Control System
Fanless Motion Control System with
7th/6th Gen Intel® Core™ i7/i5/i3 Desktop Processors



Expansion Cards



Flexible Mounting

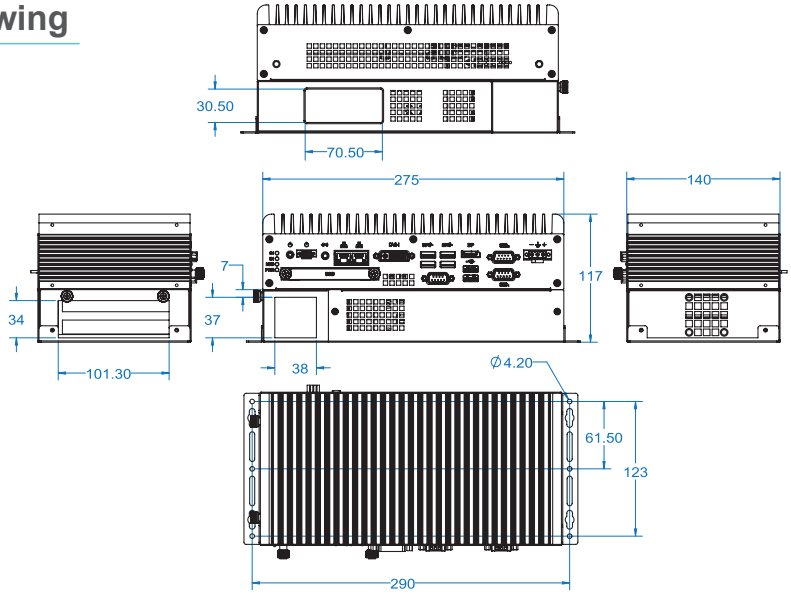
Side Mounting



DIN-rail Mounting



Dimensions and Drawing



AMS210

Automatic Control System
Automatic Control System with
9th/8th Generation Intel® Core™ Processor







Rear I/O

Features

- 9th/8th Generation Intel® Core™ Processor (35W TDP)
- 2x DDR4 SO-DIMM, Max. 32GB
- 4x Gigabit LAN
- 512k SRAM on board
- 2x expansion slots
- 3x DisplayPort outputs
- 2.5" drive bays (supports RAID 0/1)



MB211

Specifications

System Mainboard	Customized board
CPU Type	9th/8th Gen Intel® Core™ Processor
System Speed	Up to 4.0GHz
Memory	2x 4GB DDR4-2666/2400 SO-DIMM
Construction	SGCC
Chassis Color	Sliver
Front Panel External I/O	2x RS232 (Optional COM port cable)
Rear Panel External I/O	1x RS232/RS422/RS485 1x RS232 (Optional COM port cable kit) 1x Power On/Off switch 3x DisplayPort (1x DP via pin-header) 4x USB 2.0 4x RJ45 (Gigabit Ethernet) 4x USB 3.1 1x Line-Out 1x DC input (3-pin Phoenix connector with lock)
Expansion Slots	ABP-IP701: 1x PCI-E(x16) + 1x PCI-E(x4) ABP-IP702: 1x PCI + 1x PCI-E(x16) ABP-IP703: 2x PCI
Others	1x 512k SRAM
Storage	2x 2.5" SATA HDD or SSD (Optional 2nd drive bay bracket)
Mounting	Desktop or wall mount
Dimensions	297.4mm(W) x 266.2mm(D) x 78.5mm(H) 11.71"(W) x 10.48"(D) x 3.09"(H)
Weight	5.9kg
Operating Temperature	0°C~55°C (32°F~131°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10~95%, non-condensing@60 degree C
Vibration	Operating: 3Grms / 5~500Hz
Certification	CE/FCC Class B/ LVDS (Prescan only)

Ordering Information

AMS210	Box PC Controller with Intel® Core™ i7-9700TE Processor CPU with 8GB DDR4 SO-DIMM, 2.5" 500GB SATA HDD/SSD and 1x PCI + 1x PCI-E(x16) expansion slots
AMS210M	Box PC Controller MB211 w/o CPU / Memory/ HDD / Riser card / Power adaptor, Desktop stand & Mounting brackets (RoHS2)
270W Power Adaptor Kit (optional)	270W (24V@11.25A) Power Kit Compatible with IEC62368-1/EN62368-1

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

AMS210

Automatic Control System
Automatic Control System with
9th/8th Generation Intel® Core™ Processor

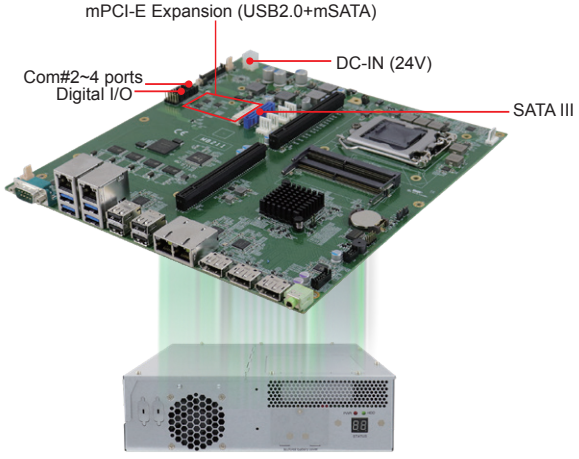
Recommended Processor list

Model	TDP	Base Freq	Turbo Freq	Cache	Cores / Threads
i7-9700TE	35W	1.8 GHz	3.8 GHz	12M	8/8
i7-8700T	35W	2.4 GHz	4.0 GHz	12M	6/12
i5-9500TE	35W	2.2 GHz	3.6 GHz	9M	6/6
i5-8500T	35W	2.1 GHz	3.5 GHz	9M	6/6
i3-9100TE	35W	2.2 GHz	3.2 GHz	6M	4/4
i3-8100T	35W	3.1 GHz	N/A	6M	4/4
G5400T	35W	3.1 GHz	N/A	4M	2/4
G4900T	35W	2.9 GHz	N/A	2M	2/2

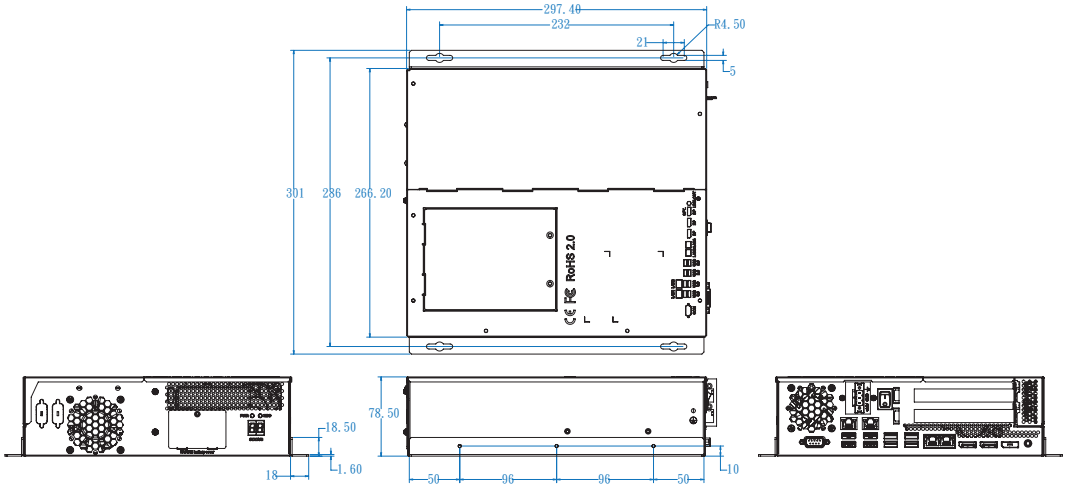
Inside view of System



MB211 Digital IO



Dimensions and Drawing



AMS300

Compact Expandable Fanless System
Expandable Fanless & Compact System with
7th/6th Gen Intel® Core™ i7/i5/i3 Desktop Processors (35W TDP)


Rear I/O

Features

- Compact fanless system with IBASE MB300 customized board
- 7th/6th Gen Intel® Core™ i7/i5/i3 Processors (35W TDP)
- 2MB MRAM module (optional)
- Front removable drive bay for HDD/SSD (supports RAID 0/1)
- Over/Under/Reverse voltage protection
- iSMART, iAMT (11.6)

Specifications

System Mainboard	MB300 with Intel® Q170 PCH
CPU Type	7th/6th Gen Intel® Core™ i7/i5/i3 desktop Processors (35W TDP)
System Speed	Up to 3.4GHz
Memory	2x DDR4-2133 SO-DIMM, Max. 32GB
Construction	Aluminum & steel
Chassis Color	Sliver
Front Panel External I/O	2x Antenna hole for WLAN module
Rear Panel External I/O	1x DVI-I + 1x DisplayPort connector 1x Audio jack for Line-out 4x USB 3.0 ports, 2x USB 2.0 ports 1x Red HDD LED, 1x green power LED 2x Error LED by programming 1x Power button 1x 2-pin terminal block for external power button 1x RS232/422/485 port for COM#1 1x RS232 port for COM#2 2x RJ45 Gigabit Ethernet port 1x 3-pin DC-in terminal block for 24V
Expansion Slots	1x Mini PCI-E socket (full-size)
Storage	2x 2.5" HDD/SSD (1x internal & 1x external-accessible) + 1x mSATA socket
Mounting	Desktop or wall mounting (wall mount kit included) Side mounting DIN-rail mounting (optional)
Dimensions	275mm (W) x 140mm (D) x 70mm (H) 10.83" (W) x 5.51" (D) x 2.76" (H)
Weight	2.7kg
Operating Temperature	-10°C to 60°C (14°F~140°F) *with air flow -10°C to 50°C (14°F to 122°F) without air flow
Storage Temperature	-20°C to 80°C (-4°F to 176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	Operating: 3 grms / 5~500Hz / random operation (storage is mSATA)
Certification	CE / LVD / FCC Class B

Ordering Information

AMS300	Fanless System with MB300, w/ Intel® Core™ i7/i5/i3 desktop Processor, 2x COM, 2x 4GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor
180W power adaptor (optional)	180W (24V@7.5A) power adaptor, bare wire type Compatible with IEC62368-1/EN62368-1
2nd storage BRK (optional)	HDD/SSD BKT ASSY (SC2AMS300--A10100P)
Optional Accessories	WiFi/BT antenna kit 4G/LTE antenna kit (Must w/ M2MU2-S) GPS antenna kit (Must w/ M2MU2-S)

Recommended Processor list

Model	TDP	Base Freq	Turbo Freq	Cache	Cores / Threads
i7-7700T	35W	2.9 GHz	3.8 GHz	8M	4/8
i7-6700TE	35W	2.4 GHz	3.4 GHz	8M	4/8
i5-7500T	35W	2.7 GHz	3.3 GHz	6M	4/4
i5-6500TE	35W	2.3 GHz	3.3 GHz	6M	4/4
i3-7101TE	35W	3.4 GHz	N/A	3M	2/4
i3-6100TE	35W	2.7 GHz	N/A	4M	2/4
G4400TE	35W	2.9 GHz	N/A	3M	2/2
G3900TE	35W	2.6 GHz	N/A	2M	2/2

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

AMS300

Compact Expandable Fanless System
Expandable Fanless & Compact System with
7th/6th Gen Intel® Core™ i7/i5/i3 Desktop Processors (35W TDP)

Features of New Automation Box PC

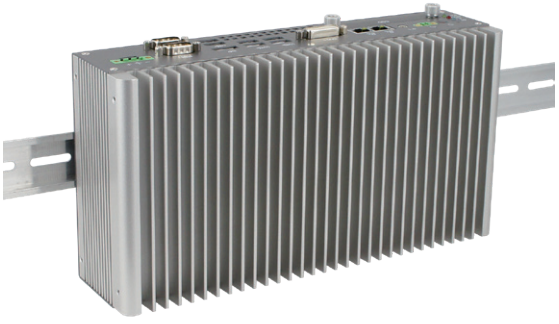
- Based on 7th/6th Gen Intel® CPU (35W TDP)
- Compact & Fanless
- Onboard Diagnostics LED
- Supports different types of Fieldbus through Expansion (AMS301)
- 2MB MRAM (optional)
- Front-accessible Drive Bay (supports RAID 0/1)
- Remote Power button for Remote Access
- 24V input voltage (Power Protection)
- Wallmount, Desktop or DIN mounting

Flexible Mounting

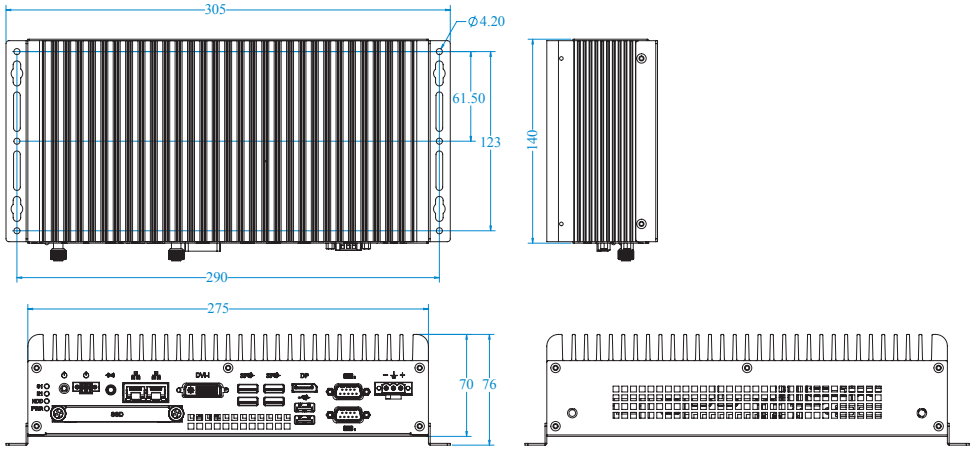
Side Mounting



DIN-rail Mounting



Dimensions and Drawing



AMS300-1

Compact Expandable Fanless System
Expandable Fanless & Compact System with
7th/6th Gen Intel® Core™ i7/i5/i3 Desktop Processors (35W TDP)



Rear I/O

Features

- Compact fanless system with IBASE MB300-1 customized board
- 7th/6th Gen Intel® Core™ i7/i5/i3 Processors (35W TDP)
- 2MB MRAM module (optional)
- Front removable drive bay for HDD/SSD (supports RAID 0/1)
- Over/Under/Reverse voltage protection
- iSMART, iAMT (11.6)

Specifications

System Mainboard	MB300-1 with Intel® Q170 PCH
CPU Type	7th/6th Gen Intel® Core™ i7/i5/i3 desktop Processors (35W TDP)
System Speed	Up to 3.4GHz
Memory	2x DDR4-2133 SO-DIMM, Max. 32GB
Construction	Aluminum & steel
Chassis Color	Sliver
Front Panel External I/O	2x Antenna hole for WLAN module
Rear Panel External I/O	1x DVI-I + 1x DisplayPort connector 1x Audio jack for Line-out 4x USB 3.0 ports, 2x USB 2.0 ports 1x Red HDD LED, 1x green power LED 2x Error LED by programming 1x Power button 1x 2-pin terminal block for external power button 3x RJ45 Gigabit Ethernet port 1x 3-pin DC-in terminal block for 24V
Expansion Slots	1x Mini PCI-E socket (full-size)
Storage	2x 2.5" HDD/SSD (1x internal & 1x external-accessible) + 1x mSATA socket
Mounting	Desktop or wall mounting (wall mount kit included) Side mounting DIN-rail mounting (optional)
Dimensions	275mm (W) x 140mm (D) x 70mm (H) 10.83" (W) x 5.51" (D) x 2.76" (H)
Weight	2.7kg
Operating Temperature	-10°C to 60°C (14°F~140°F) *with air flow -10°C to 50°C (14°F to 122°F) without air flow
Storage Temperature	-20°C to 80°C (-4°F to 176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	Operating: 3 grms / 5~500Hz / random operation (storage is mSATA)
Certification	CE / LVD / FCC Class B (Prescan only)

Ordering Information

AMS300-1	Fanless System with MB300-1, w/ Intel® Core™ i7/i5/i3 desktop Processor, 3x RJ45, 2x 4GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor
180W power adaptor (optional)	180W (24V@7.5A) power adaptor, bare wire type Compatible with IEC62368-1/EN62368-1
2nd storage BRK (optional)	HDD/SSD BKT ASSY (SC2AMS300--A10100P)
Optional Accessories	WiFi/BT antenna kit 4G/LTE antenna kit (Must w/ M2MU2-S) GPS antenna kit (Must w/ M2MU2-S)

Recommended Processor list

Model	TDP	Base Freq	Turbo Freq	Cache	Cores / Threads
i7-7700T	35W	2.9 GHz	3.8 GHz	8M	4/8
i7-6700TE	35W	2.4 GHz	3.4 GHz	8M	4/8
i5-7500T	35W	2.7 GHz	3.3 GHz	6M	4/4
i5-6500TE	35W	2.3 GHz	3.3 GHz	6M	4/4
i3-7101TE	35W	3.4 GHz	N/A	3M	2/4
i3-6100TE	35W	2.7 GHz	N/A	4M	2/4
G4400TE	35W	2.9 GHz	N/A	3M	2/2
G3900TE	35W	2.6 GHz	N/A	2M	2/2

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

AMS300-1

Compact Expandable Fanless System
Expandable Fanless & Compact System with
7th/6th Gen Intel® Core™ i7/i5/i3 Desktop Processors (35W TDP)

Product Appearance

AMS300 VS AMS300-1





Flexible Mounting

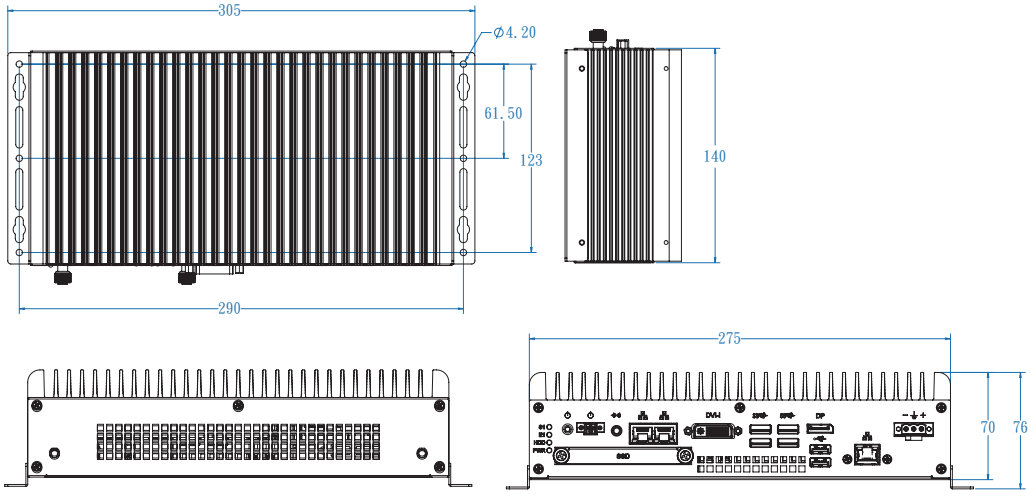
Side Mounting



DIN-rail Mounting



Dimensions and Drawing



AMS301

Compact Expandable Fanless System

Expandable Fanless & Compact System with
7th/6th Gen Intel® Core™ i7/i5/i3 Desktop Processors (35W TDP)



Rear I/O

Features

- Compact fanless system with IBASE MB300 customized board
- 7th/6th Gen Intel® Core™ i7/i5/i3 Processors (35W TDP)
- 2MB MRAM module (optional)
- Front removable drive bay for HDD/SSD (supports RAID 0/1)
- Supports different types of Fieldbus through expansion slot
- Over/Under/Reverse voltage protection
- Supports DIN-rail mount & wall mount
- iSMART, iAMT (11.6)

Specifications

System Mainboard	MB300 with Intel® Q170 PCH
CPU Type	7th/6th Gen Intel® Core™ i7/i5/i3 desktop Processors (35W TDP)
System Speed	Up to 3.4GHz
Memory	2x DDR4-2133 SO-DIMM, Max. 32GB
Construction	Aluminum & steel
Chassis Color	Sliver
Front Panel External I/O	2x Antenna hole for WLAN module
Rear Panel External I/O	1x DVI-I + 1x DisplayPort connector 1x Audio jack for Line-out 4x USB 3.0 ports, 2x USB 2.0 ports 1x Red HDD LED, 1x green power LED 2x Error LED by programming 1x Power button 1x 2-pin terminal block for external power button 1x RS232/422/485 port for COM#1 1x RS232 port for COM#2 2x RJ45 Gigabit Ethernet port 1x 3-pin DC-in terminal block for 24V 3x Fieldbus module bracket
Expansion Slots	4x Mini PCI-E sockets (full-size)
Storage	2x 2.5" HDD/SSD (1x internal & 1x external-accessible) + 1x mSATA socket
Mounting	Desktop or wall mounting (wall mount kit included) Side mounting DIN-rail mounting (optional)
Dimensions	275mm (W) x 140mm (D) x 117mm (H) 10.83" (W) x 5.51" (D) x 4.61" (H)
Weight	3.3kg
Operating Temperature	-10°C to 60°C (14°F~140°F) *with air flow -10°C to 50°C (14°F to 122°F) without air flow
Storage Temperature	-20°C to 80°C (-4°F to 176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	Non-Operating: 1.0 grms / 5~500Hz / random operation Operatiing: 0.25 grms / 5~500Hz / random operation
Certification	CE / LVD / FCC Class B

Ordering Information

AMS301	Fanless System with MB300, w/ Intel® Core™ i7/i5/i3 desktop Processor, 2x COM, 2x 4GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, 3x Mini PCI-E, w/o power adaptor
180W power adaptor (optional)	180W (24V@7.5A) power adaptor, bare wire type Compatible with IEC62368-1/EN62368-1
2nd storage BRK (optional)	HDD/SSD BKT ASSY (SC2AMS300--A10100P)
Optional Accessories	WiFi/BT antenna kit 4G/LTE antenna kit (Must w/ M2MU2-S) GPS antenna kit (Must w/ M2MU2-S)

Recommended Processor list

Model	TDP	Base Freq	Turbo Freq	Cache	Cores / Threads
i7-7700T	35W	2.9 GHz	3.8 GHz	8M	4/8
i7-6700TE	35W	2.4 GHz	3.4 GHz	8M	4/8
i5-7500T	35W	2.7 GHz	3.3 GHz	6M	4/4
i5-6500TE	35W	2.3 GHz	3.3 GHz	6M	4/4
i3-7101TE	35W	3.4 GHz	N/A	3M	2/4
i3-6100TE	35W	2.7 GHz	N/A	4M	2/4
G4400TE	35W	2.9 GHz	N/A	3M	2/2
G3900TE	35W	2.6 GHz	N/A	2M	2/2

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

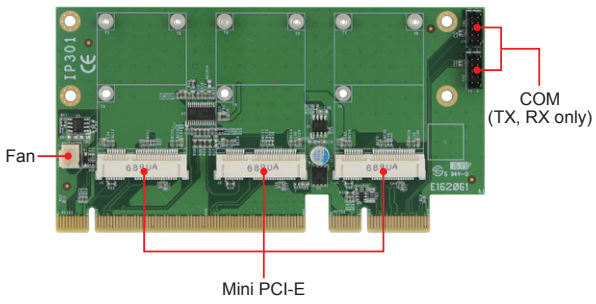
AMS301

Compact Expandable Fanless System

Expandable Fanless & Compact System with
7th/6th Gen Intel® Core™ i7/i5/i3 Desktop Processors (35W TDP)

Expansion Cards

IP301



Flexible Mounting

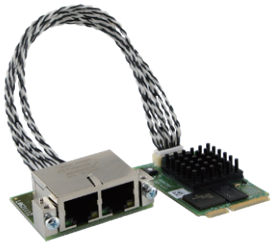
Side Mounting



DIN-rail Mounting

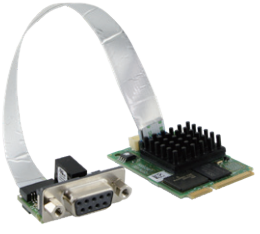


Field Bus Adaptor via Mini PCI-E



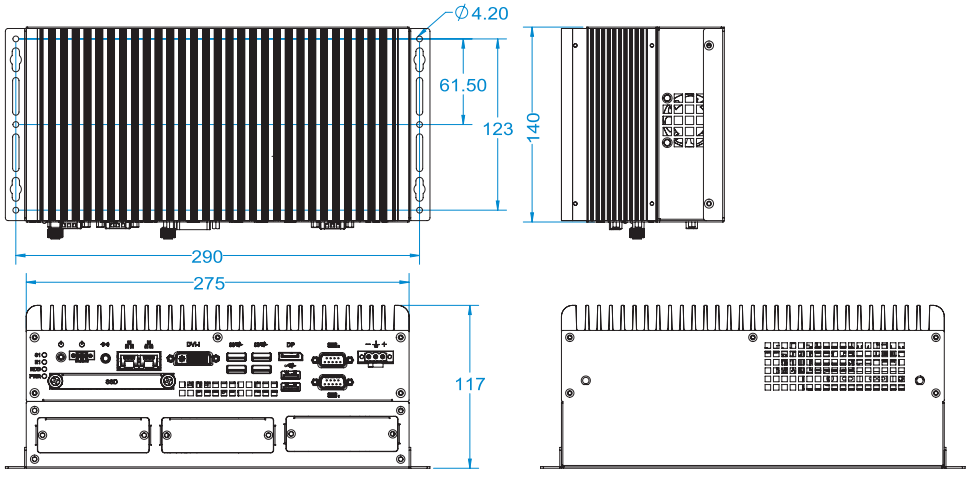
PROFINET module





PROFIBUS module

Dimensions and Drawing



AMS302

Compact Expandable Fanless System
Expandable Fanless & Compact System with
7th/6th Gen Intel® Core™ i7/i5/i3 Desktop Processors (35W TDP)



Rear I/O

Features

- Compact fanless system with for IBASE MB300 customized board
- 7th/6th Gen Intel® Core™ i7/i5/i3 Processors (35W TDP)
- 2MB MRAM module (optional)
- Front removable drive bay for HDD/SSD (supports RAID 0/1)
- 1x PCI-E (x8) + 1x PCI-E (x4) expansion slot
- Over/Under/Reverse voltage protection
- Supports DIN-rail mount & wall mount
- iSMART, iAMT (11.6)

Specifications

System Mainboard	MB300 with Intel® Q170 PCH
CPU Type	7th/6th Gen Intel® Core™ i7/i5/i3 desktop Processors (35W TDP)
System Speed	Up to 3.4GHz
Memory	2x DDR4-2133 SO-DIMM, Max. 32GB
Construction	Aluminum & steel
Chassis Color	Sliver
Front Panel External I/O	2x Antenna hole for WLAN module
Rear Panel External I/O	1x DVI-I + 1x DisplayPort connector 1x Audio jack for Line-out 4x USB 3.0 ports, 2x USB 2.0 ports 1x Red HDD LED, 1x green power LED 2x Error LED by programming 1x Power button 1x 2-pin terminal block for external power button 1x RS232/422/485 port for COM#1 1x RS232 port for COM#2 2x RJ45 Gigabit Ethernet port 1x 3-pin DC-in terminal block for 24V
Expansion Slots	1x Mini PCI-E sockets (full-size) 1x PCI-E (x8) slot 1x PCI-E (x4) slot
Storage	2x 2.5" HDD/SSD (1x internal & 1x external-accessible) + 1x mSATA socket
Mounting	Desktop or wall mounting (wall mount kit included) Side mounting DIN-rail mounting (optional)
Dimensions	275mm (W) x 140mm (D) x 117mm (H) 10.83" (W) x 5.51" (D) x 4.61" (H)
Weight	3.3kg
Operating Temperature	-10°C to 60°C (14°F~140°F) *with air flow -10°C to 50°C (14°F to 122°F) without air flow
Storage Temperature	-20°C to 80°C (-4°F to 176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	Non-Operating: 1.0 grms / 5~500Hz / random operation Operatiing: 0.25 grms / 5~500Hz / random operation
Certification	CE / LVD / FCC Class B

Ordering Information

AMS302	Fanless System with MB300, w/ Intel® Core™ i7/i5/i3 desktop Processor, 2x COM, 2x 4GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, 1x PCI-E (x8) + 1x PCI-E (x4) expansion slots, w/o power adaptor
180W power adaptor (optional)	180W (24V@7.5A) power adaptor, bare wire type Compatible with IEC62368-1/EN62368-1
2nd storage BRK (optional)	HDD/SSD BKT ASSY (SC2AMS300--A10100P)
Optional Accessories	WiFi/BT antenna kit 4G/LTE antenna kit (Must w/ M2MU2-S) GPS antenna kit (Must w/ M2MU2-S)

Recommended Processor list

Model	TDP	Base Freq	Turbo Freq	Cache	Cores / Threads
i7-7700T	35W	2.9 GHz	3.8 GHz	8M	4/8
i7-6700TE	35W	2.4 GHz	3.4 GHz	8M	4/8
i5-7500T	35W	2.7 GHz	3.3 GHz	6M	4/4
i5-6500TE	35W	2.3 GHz	3.3 GHz	6M	4/4
i3-7101TE	35W	3.4 GHz	N/A	3M	2/4
i3-6100TE	35W	2.7 GHz	N/A	4M	2/4
G4400TE	35W	2.9 GHz	N/A	3M	2/2
G3900TE	35W	2.6 GHz	N/A	2M	2/2

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

AMS302

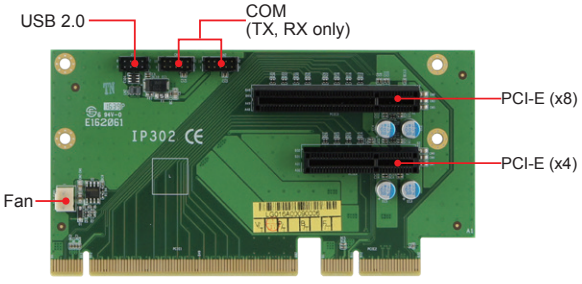
Compact Expandable Fanless System

Expandable Fanless & Compact System with
7th/6th Gen Intel® Core™ i7/i5/i3 Desktop Processors (35W TDP)



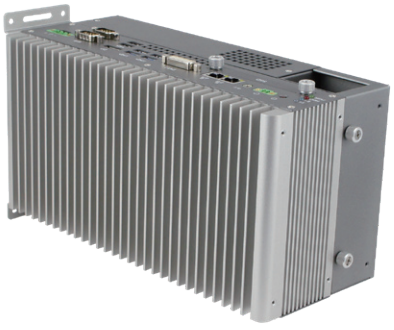
Expansion Cards

IP302



Flexible Mounting

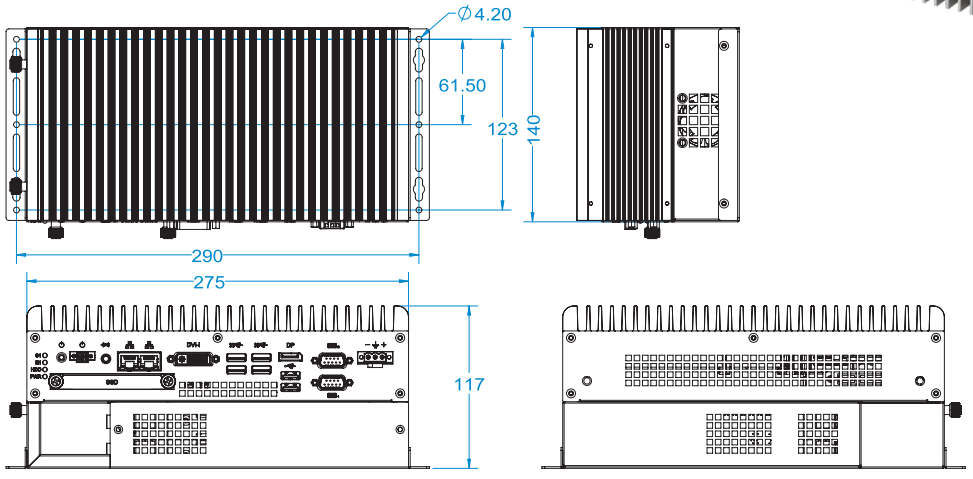
Side Mounting



DIN-rail Mounting



Dimensions and Drawing



AMI210

Compact Expandable Fanless System
Expandable Fanless & Ventless System with
4th Gen Intel® Core™ i7/i5/i3 Desktop Processors





Rear I/O

Features

- Fanless system with IBASE MB210 customized board
- 4th Gen Intel® Core™ i7/i5/i3 Processors
- Supports three independent display outputs
- 1x Isolated RS422/485 port (1kv surge protection)
- 12V~24V DC wide-range voltage input
- Over/Under/Reverse voltage protection
- iSMART, iAMT (9.0)

Specifications

System Mainboard	MB210AF with Intel® Q87 PCH MB210EF with Intel® H81 PCH
CPU Type	4th Gen Intel® Core™ i7/i5/i3 desktop Processors
System Speed	Up to 3.1GHz
Memory	2x 2GB DDR3-1600 SO-DIMM, Max. 16GB
Construction	Aluminum & steel
Chassis Color	Sliver (aluminum)
Front Panel External I/O	1x DVI-D + 1x VGA 1x Audio jack for MIC-in / Line-out 2x USB 3.0 ports (AMI210AF only) 2x USB 2.0 ports (AMI210EF only) 1x Red HDD LED 1x Power button with green LED indicator 1x CFast socket 1x 2-pin terminal block for external power button
Rear Panel External I/O	1x RS422/485 port with isolation protection for COM#1 1x RS232 port for COM#2 2x RS232 port for COM#3/COM#4 1x DisplayPort + HDMI connector 1x RJ45 Gigabit Ethernet port + 2x USB 3.0 ports 1x RJ45 Gigabit Ethernet port + 2x USB 2.0 ports 1x 3-pin DC-in terminal block for 12V~24V 2x Antenna holes
Expansion Slots	2x Mini PCI-E sockets + 1x CFast slot
Storage	1x 2.5" HDD/SSD + 1x mSATA
Mounting	Desktop or wall mount (wall mount kit included)
Dimensions	210mm (W) x 265mm (D) x 71mm (H) 8.27" (W) x 10.43" (D) x 2.79" (H)
Weight	3.6kg
Operating Temperature	-10°C to 45°C (14°F~113°F) (for 45W CPU) -10°C to 50°C (14°F~122°F) (for 35W CPU)
Storage Temperature	-20°C ~ 80°C (-4°F~176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	Non-Operating: 1.0 grms / 5~500Hz / random operation Operatiing: 0.25 grms / 5~500Hz / random operation
Shock	Operating : 20G/ 11ms; Non- Operating : 40G/ 11ms (MIL-STD-810G)
Certification	CE / LVD / FCC Class B

Ordering Information

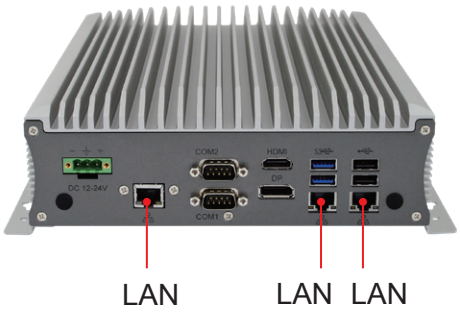
AMI210AF	Fanless box system with MB210AF, w/ Intel® Core™ i7/i5/i3 desktop Processor, 4x COM, 2x 2GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor
AMI210EF	Fanless box system with MB210EF, w/ Intel® Core™ i7/i5/i3 desktop Processor, 4x COM, 2x 2GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor
AMI210AF-3L (MOQ)	Fanless box system with MB210AF, w/ Intel® Core™ i7/i5/i3 desktop Processor, 3x LAN, 2x COM, 2x 2GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor
150W power adaptor (optional)	150W (12V@12.5A) power adaptor, bare wire type

Recommended Processor list

Model	TDP	Base Freq	Turbo Freq	Cache	Platform
i7-4770TE	45W	2.3 GHz	3.3 GHz	8M	Haswell
i5-4570TE	35W	2.7 GHz	3.3 GHz	4M	Haswell
i5-4590T	35W	2.0 GHz	3.0GHz	6M	Haswell Refresh
i3-4350T	35W	3.1 GHz	N/A	4M	Haswell Refresh
i3-4330TE	35W	2.4 GHz	N/A	4M	Haswell
G3320TE	35W	2.3 GHz	N/A	3M	Haswell
G1820TE	35W	2.2 GHz	N/A	2M	Haswell

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

AMI210AF-3L

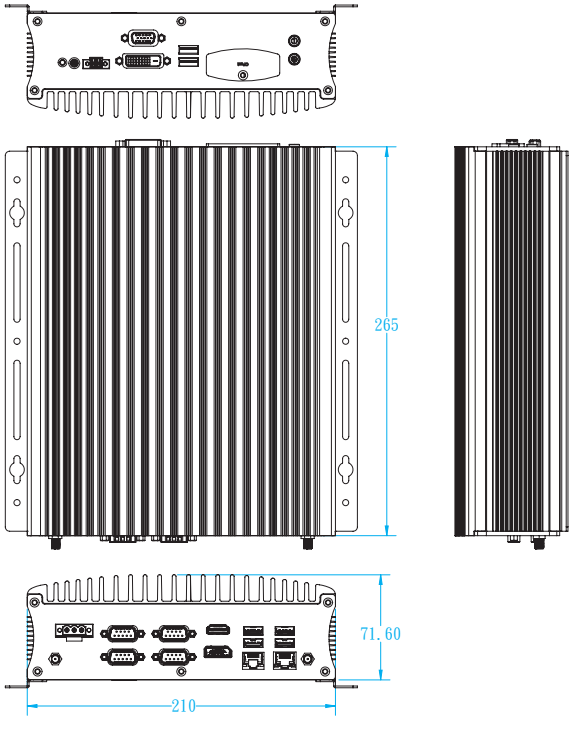




Flexible SSD Replacement



Dimensions and Drawing



AMI210-PE

Compact Expandable Fanless System
Expandable Fanless & Ventless System with
4th Gen Intel® Core™ i7/i5/i3 Desktop Processors





Rear I/O

Features

- Fanless system with IBASE MB210 customzied board
- 4th Gen Intel® Core™ i7/i5/i3 Processors
- Supports three independent display output capability
- Supports 2x 2.5" SATA HDD / SSD
- 1x Isolated RS422/485 port (1kv surge protection)
- 12V~24V DC wide-range voltage input
- Over/Uuder/Reverse voltage protection
- iSMART, iAMT(9.0)

Specifications

System Mainboard	MB210AF with Intel® Q87 PCH MB210EF with Intel® H81 PCH
CPU Type	4th Gen Intel® Core™ i7/i5/i3 desktop Processors
System Speed	Up to 3.1GHz
Memory	2x 2GB DDR3-1600 SO-DIMM, Max. 16GB
Construction	Aluminum & steel
Chassis Color	Sliver (aluminum)
Front Panel External I/O	1x DVI-D + 1x VGA 1x Audio jack for MIC-in / Line-out 2x USB 3.0 ports (MB210AF only) 2x USB 2.0 ports (MB210EF only) 2x Antenna hole 1x Red HDD LED 1x Power button with green LED indicator 1x CFast socket 1x 2-pin terminal block for external power button
Rear Panel External I/O	1x RS422/485 port with isolation protection for COM#1 1x RS232 port for COM#2 2x RS232 port for COM#3/COM#4 1x DisplayPort + HDMI connector 1x RJ45 Gigabit Ethernet port + 2x USB 3.0 ports 1x RJ45 Gigabit Ethernet port + 2x USB 2.0 ports 1x 3-pin DC-in terminal block for 12V~24V 2x Antenna hole
Expansion Slots	2x Mini PCI-E sockets + 1x CFast slot
Expansion Slots & I/O for optional BOX	1x PCI-E (x8) slot (default) 1x PCI-E (x1) slot (default) 2x RS232 ports for COM5/COM6 (TX/RX signal only) 2x USB 2.0 ports
Storage	2x 2.5" HDD/SSD + 1x mSATA
Mounting	Desktop or wall mount (wall mount kit included)
Dimensions	210mm (W) x 265mm (D) x 134mm (H) 8.27" (W) x 10.43" (D) x 5.28" (H)
Weight	4.3kg
Operating Temperature	-10°C~ 45°C (14°F~113°F) (for 45W CPU) -10°C~ 50°C (14°F~122°F) (for 35W CPU)
Storage Temperature	-20°C ~ 80°C (-4°F~176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	Non-Operating: 1.0 grms / 5~500Hz / random operation Operatiing: 0.25 grms / 5~500Hz / random operation
Shock	Operating : 20G/ 11ms ; Non-Operating : 40G/ 11ms (MIL-STD-810G)
Certification	CE / LVD / FCC Class B

Ordering Information

AMI210AF-PE	Fanless box system with MB210AF, w/ Intel® Core™ i7/i5/i3 desktop Processor, 6x COM, 2x 2GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, 1x PCI-E (x8) + 1x PCI-E (x1) expansion slots, w/o power adaptor
AMI210EF-PE	Fanless box system with MB210EF, w/ Intel® Core™ i7/i5/i3 desktop Processor, 6x COM, 2x 2GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, 1x PCI-E (x8) + 1x PCI-E (x1) expansion slots, w/o power adaptor
150W power adaptor (optional)	150W (12V@12.5A) power adaptor, bare wire type
2nd Storage BRK	HDD/SSD bracket kit (SC2AMI210--A10100P)

Recommended Processor list

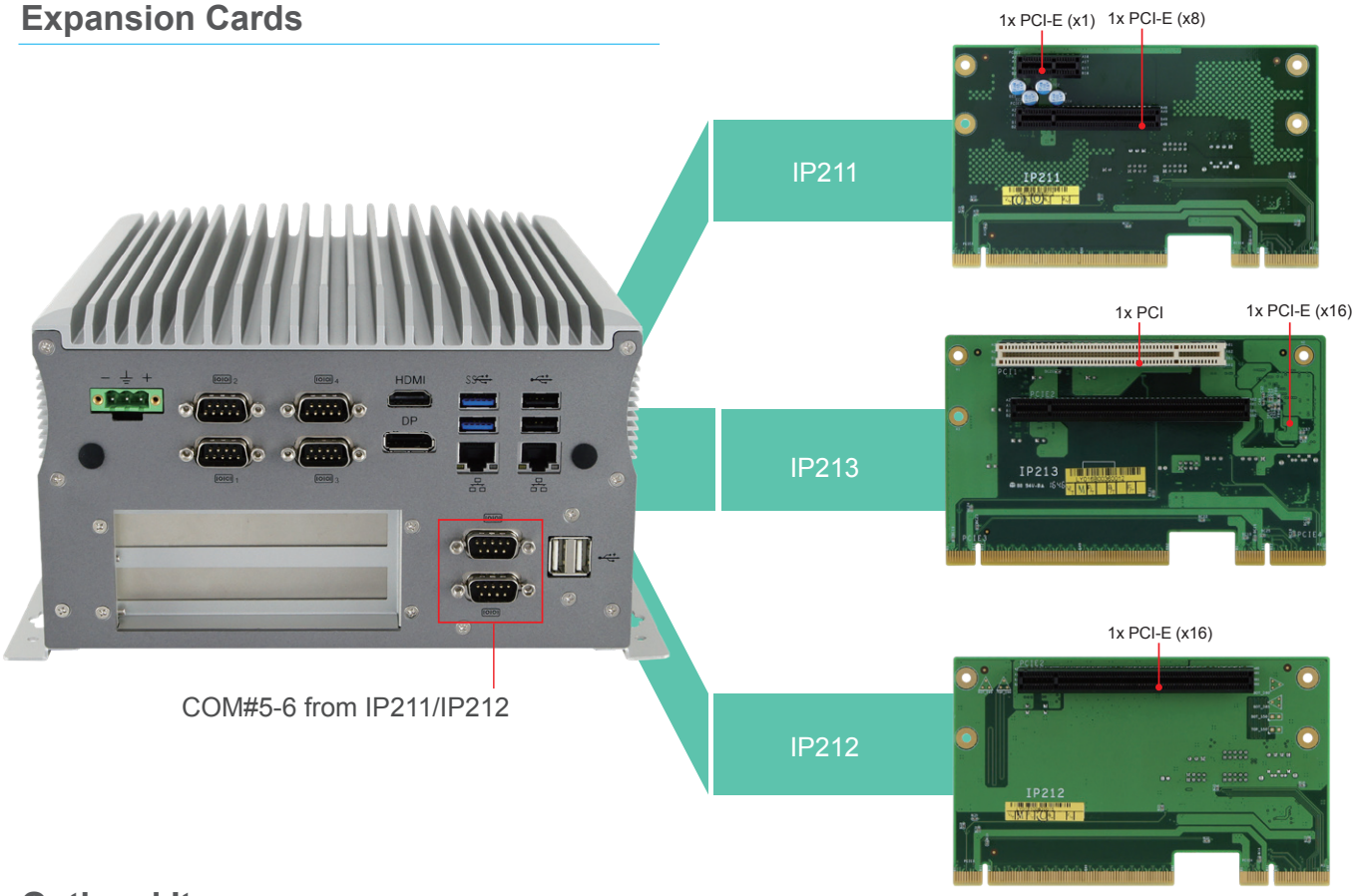
Model	TDP	Base Freq	Turbo Freq	Cache	Platform
i7-4770TE	45W	2.3 GHz	3.3 GHz	8M	Haswell
i5-4570TE	35W	2.7 GHz	3.3 GHz	4M	Haswell
i5-4590T	35W	2.0 GHz	3.0GHz	6M	Haswell Refresh
i3-4350T	35W	3.1 GHz	N/A	4M	Haswell Refresh
i3-4330TE	35W	2.4 GHz	N/A	4M	Haswell
G3320TE	35W	2.3 GHz	N/A	3M	Haswell
G1820TE	35W	2.2 GHz	N/A	2M	Haswell

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

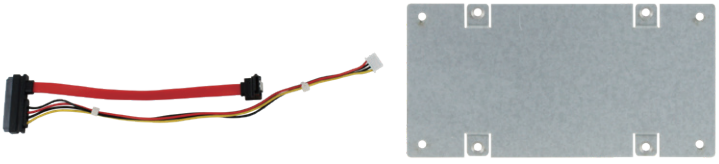
AMI210-PE

Compact Expandable Fanless System
Expandable Fanless & Ventless System with
4th Gen Intel® Core™ i7/i5/i3 Desktop Processors

Expansion Cards



Optional Items

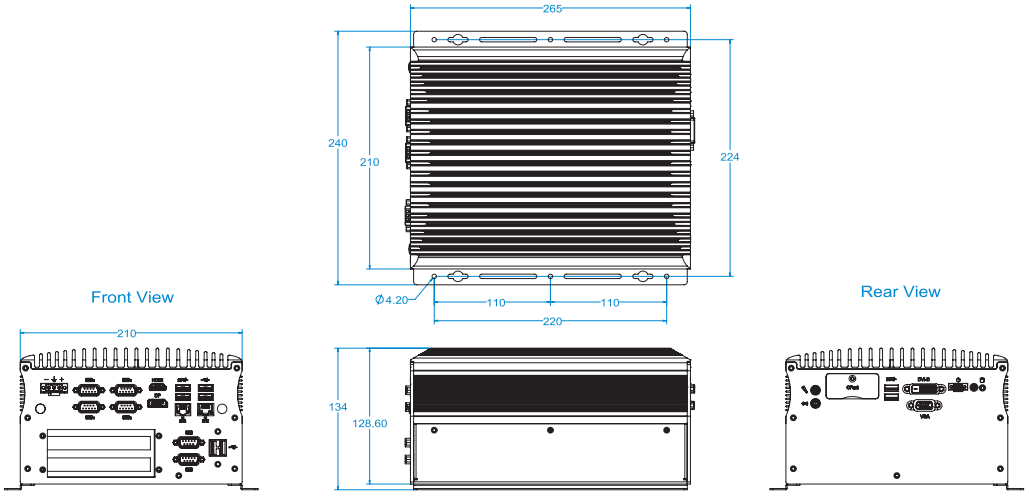


2nd 2.5" SATA SSD kit
(P/N: SC2AMI210--A10100P)



12V / 150W power adaptor

Dimensions and Drawing



AMI220

Compact Expandable Fanless System
Expandable Fanless & Ventless System with
7th/6th Gen Intel® Core™ i7/i5/i3 Desktop Processors (35W TDP)



Rear I/O

Features

- Fanless system with IBASE MB220 customized board
- 7th/6th Gen Intel ® Core™ i7/i5/i3 Processors (35W TDP)
- Supports three independent display outputs
- Flexible expansion slot system
- Dual SIM slot supports WWAN redundancy
- 12V to 24V DC wide-range voltage input
- Over/Under/Reverse voltage protection
- iSMART, iAMT (11.6), TPM (2.0)

Specifications

System Mainboard	MB220AF-1 with Intel® Q170 PCH MB220EF-1 with Intel® H110 PCH
CPU Type	7th/6th Gen Intel® Core™ i7/i5/i3 desktop Processors (35W TDP)
System Speed	Up to 3.4GHz
Memory	2x 2GB DDR4-2400 SO-DIMM, Max. 32GB
Construction	Aluminum & steel
Chassis Color	Sliver & gray (aluminum)
Front Panel External I/O	1x DVI-D + 1x VGA 1x Audio jack for MIC-in / Line-out 4x USB 2.0 ports 1x Red HDD LED 1x Power button with green LED indicator 2x SIM card slots 1x 2-pin terminal block for external power button
Rear Panel External I/O	1x RS232/RS422/485 port for COM#1 3x RS232 port for COM#2/COM#3/COM#4 2x DisplayPort connector 1x RJ45 Gigabit Ethernet port + 2x USB 3.0 ports 1x RJ45 Gigabit Ethernet port + 2x USB 3.0 ports 1x 3 pin DC-in terminal block for 12V~24V 2x Antenna holes
Expansion Slots	2x Mini PCI-E sockets
Storage	1x 2.5" HDD/SSD 2x mSATA (AMI220AF only) & 1x mSATA (AMI220EF only) RAID 0,1,5,10 supported (AF version only)
Mounting	Desktop or wall mount (wall mount kit included)
Dimensions	210mm (W) x 265mm (D) x 77mm (H)
Weight	3.6kg
Operating Temperature	-10°C to 50°C (14°F~122°F)
Storage Temperature	-20°C ~ 80°C (-4°F~176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	Non-Operating: 1.0 grms / 5~500Hz / random operation Operatiing: 0.25 grms / 5~500Hz / random operation
Shock	Operating : 20G/ 11ms; Non-Operating : 40G/ 11ms (MIL-STD-810G)
Certification	CE / LVD /FCC Class B / CCC

Ordering Information

AMI220AF	Fanless box system with MB220AF, w/ Intel® Core™ i7/i5/i3 desktop Processor, 4x COM, 2x 4GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor
AMI220EF	Fanless box system with MB220EF, w/ Intel® Core™ i7/i5/i3 desktop Processor, 4x COM, 2x 4GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor
150W power adaptor (optional)	150W (12V@12.5A) power adaptor, bare wire type Compatible with IEC62368-1/EN62368-1
Optional Accessories	GPS antenna kit

Recommended Processor list

Model	TDP	Base Freq	Turbo Freq	Cache	Cores / Threads
i7-7700T	35W	2.9 GHz	3.8 GHz	8M	4/8
i7-6700TE	35W	2.4 GHz	3.4 GHz	8M	4/8
i5-7500T	35W	2.7 GHz	3.3 GHz	6M	4/4
i5-6500TE	35W	2.3 GHz	3.3 GHz	6M	4/4
i3-7101TE	35W	3.4 GHz	N/A	3M	2/4
i3-6100TE	35W	2.7 GHz	N/A	4M	2/4
G4400TE	35W	2.9 GHz	N/A	3M	2/2
G3900TE	35W	2.6 GHz	N/A	2M	2/2

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

Product Appearance

Comparison of AMI Series System

Depth



265mm
10.43-inch

AMI220



285mm
11.22-inch

AMI230

Real I/O



AMI220



AMI230

Front I/O



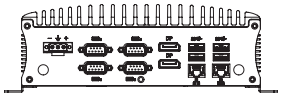
AMI220



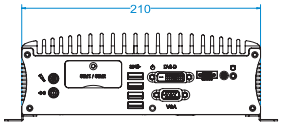
AMI230

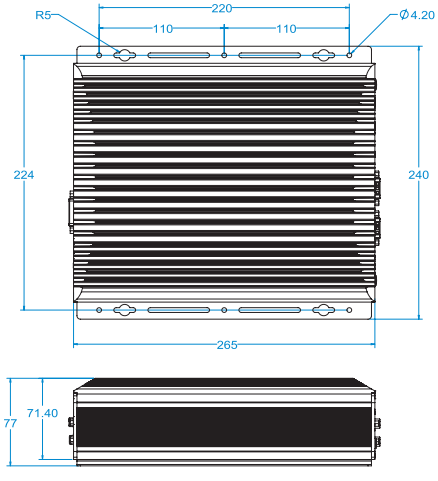
Dimensions and Drawing

Rear View



Front View





AMI221

Compact Expandable Fanless System

Expandable Fanless & Ventless System with
7th/6th Gen Intel® Core™ i7/i5/i3 Desktop Processors (35W TDP)







Rear I/O

Features

- Fanless system with IBASE MB220 customized board
- 7th/6th Gen Intel ® Core™ i7/i5/i3 Processors (35W TDP)
- Supports three independent display outputs
- Flexible expansion slot system
- Dual SIM slot supports WWAN redundancy, 2x 2.5" HDD/SSD (Supports RAID 0/1)
- 12V to 24V DC wide-range voltage input
- Over/Under/Reverse voltage protection
- iSMART, iAMT (11.6), TPM (2.0)

Specifications

System Mainboard	MB220AF-1 with Intel® Q170 PCH MB220EF-1 with Intel® H110 PCH
CPU Type	7th/6th Gen Intel® Core™ i7/i5/i3 desktop Processors (35W TDP)
System Speed	Up to 3.4GHz
Memory	2x 2GB DDR4-2400 SO-DIMM, Max. 32GB
Construction	Aluminum & steel
Chassis Color	Sliver & Gray (Aluminum)
Front Panel External I/O	1x DVI-D + 1x VGA 1x Audio jack for MIC-in / Line-out 4x USB 2.0 ports 1x Red HDD LED 1x Power button with green LED indicator 2x SIM card slots 1x 2-pin terminal block for external power button 1x front removable drive bay for SSD
Rear Panel External I/O	1x RS232/RS422/485 port for COM#1 5x RS232 port for COM#2/COM#2~6 2x DisplayPort connector 1x RJ45 Gigabit Ethernet port + 2x USB 3.0 port 1x RJ45 Gigabit Ethernet port + 2x USB 3.0 port 1x 3-pin DC-in terminal block for 12V~24V 2x Antenna holes 1x Expansion slot
Expansion Slots	2x Mini PCI-E sockets
Storage	2x 2.5" HDD/SSD (1x internal & 1x external-accessible) 2x mSATA (AMI221AF only) & 1x mSATA (AMI221EF only) RAID 0,1,5,10 supported (AF version only)
Mounting	Desktop or wall mount (wall mount kit included)
Dimensions	210mm (W) x 265mm (D) x 108.6mm (H)
Weight	4.3kg
Operating Temperature	-10°C to 50°C (14°F~122°F)
Storage Temperature	-20°C ~ 80°C (-4°F~176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	Non-Operating: 1.0 grms / 5~500Hz / random operation Operatiing: 0.25 grms / 5~500Hz / random operation
Shock	Operating : 20G/ 11ms ; Non-Operating : 40G/ 11ms (MIL-STD-810G)
Certification	CE / LVD / FCC Class B

Ordering Information

AMI221AF	Fanless box System with MB220AF, w/ Intel® Core™ i7/i5/i3 desktop Processor, 6x COM (from IP214 / IP215), 2x 4GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor, optional riser card
AMI221EF	Fanless box System with MB220EF, w/ Intel® Core™ i7/i5/i3 desktop Processor, 6x COM (from IP214 / IP215), 2x 4GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor, optional riser card
150W power adaptor (optional)	150W (12V@12.5A) power adaptor, bare wire type Compatible with IEC62368-1/EN62368-1
Riser card kit (optional)	IP214 (ZM05IP214---0A1000P) w/ COM cable (2x C501PK1H009302A00P) IP215 (ZM05IP215---0A1000P) w/ COM cable (2x C501PK1H009302A00P)
Optional Accessories	GPS antenna kit

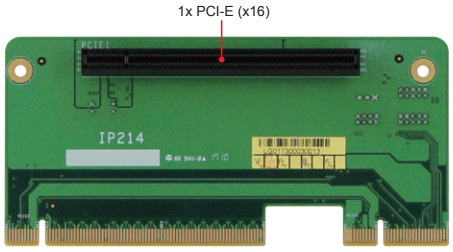
Recommended Processor list

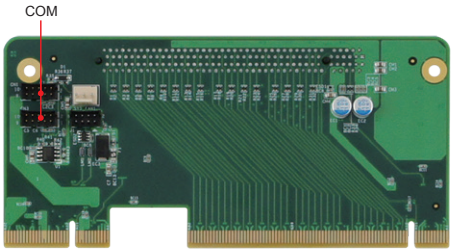
Model	TDP	Base Freq	Turbo Freq	Cache	Cores / Threads
i7-7700T	35W	2.9 GHz	3.8 GHz	8M	4/8
i7-6700TE	35W	2.4 GHz	3.4 GHz	8M	4/8
i5-7500T	35W	2.7 GHz	3.3 GHz	6M	4/4
i5-6500TE	35W	2.3 GHz	3.3 GHz	6M	4/4
i3-7101TE	35W	3.4 GHz	N/A	3M	2/4
i3-6100TE	35W	2.7 GHz	N/A	4M	2/4
G4400TE	35W	2.9 GHz	N/A	3M	2/2
G3900TE	35W	2.6 GHz	N/A	2M	2/2

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

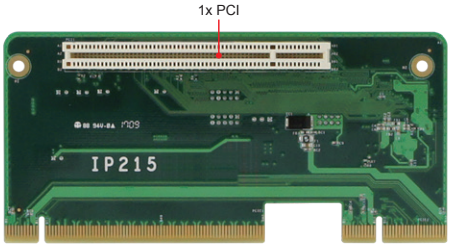
Expansion Cards

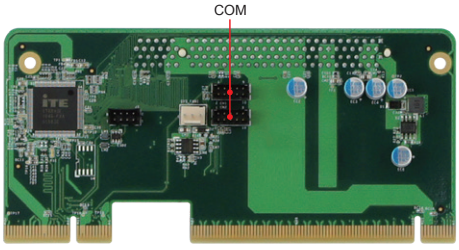
IP214



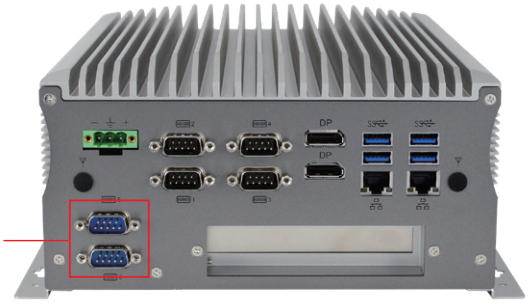


IP215

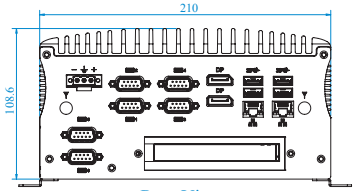




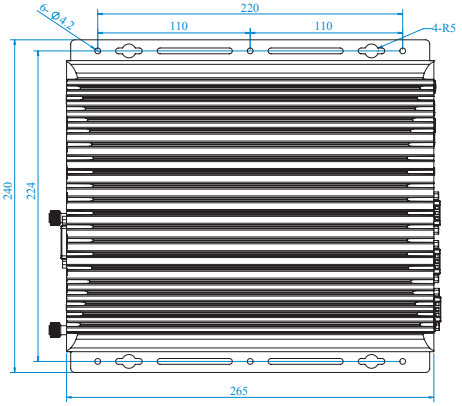
COM#5-6 from IP214 & IP215

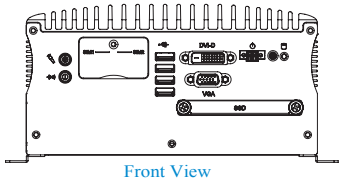


Dimensions and Drawing

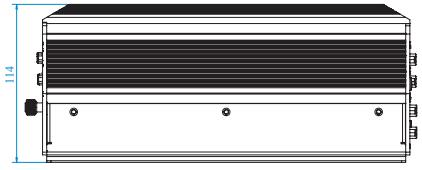


Rear View





Front View



AMI222

Compact Expandable Fanless System
Expandable Fanless & Ventless System with
7th/6th Gen Intel® Core™ i7/i5/i3 Desktop Processors (35W TDP)



Rear I/O

Features

- Fanless system with IBASE MB220 customized board
- Supports 7th/6th Gen Intel® Core™ i7/i5/i3 Processors (35W TDP)
- Supports three independent display outputs
- Flexible expansion slot system
- Dual SIM slot supports WWAN redundancy, 2x 2.5" HDD/SSD (Supports RAID 0/1)
- 12V to 24V DC wide-range voltage input
- Over/Under/Reverse voltage protection
- iSMART, iAMT (11.6), (TPM 2.0)

Specifications

System Mainboard	MB220AF-1 with Intel® Q170 PCH MB220EF-1 with Intel® H110 PCH
CPU Type	7th/6th Gen Intel® Core™ i7/i5/i3 desktop Processors (35W TDP)
System Speed	Up to 3.4GHz
Memory	2x 2GB DDR4-2400 SO-DIMM, Max. 32GB
Construction	Aluminum & steel
Chassis Color	Sliver & Gray (Aluminum)
Front Panel External I/O	1x DVI-D + 1x VGA 1x Audio jack for MIC-in / Line-out 4x USB 2.0 ports 1x Red HDD LED 1x Power button with green LED indicator 2x SIM card slots 1x 2-pin terminal block for external power button 1x Front removable drive bay for SSD
Rear Panel External I/O	1x RS232/RS422/485 port for COM#1 5x RS232 port for COM#2/COM#2~6 2x DisplayPort connector 1x RJ45 Gigabit Ethernet port + 2x USB 3.0 port 1x RJ45 Gigabit Ethernet port + 2x USB 3.0 port 1x 3-pin DC-in terminal block for 12V~24V 2x USB 2.0 port (AMI222AF only) 2x Antenna holes 2x Expansion Slots
Expansion Slots	2x Mini PCI-E sockets
Storage	2x 2.5" HDD/SSD (1x internal & 1x external-accessible) 2x mSATA (AMI222AF only) & 1x mSATA (AMI222EF only) RAID 0,1,5,10 supported (AF version only)
Mounting	Desktop or wall mount (wall mount kit included)
Dimensions	210mm (W) x 265mm (D) x 128.6mm (H)
Weight	4.3kg
Operating Temperature	-10°C to 50°C (14°F~122°F)
Storage Temperature	-20°C ~ 80°C (-4°F~176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	Non-Operating: 1.0 grms / 5~500Hz / random operation Operatiing: 0.25 grms / 5~500Hz / random operation
Shock	Operating : 20G/ 11ms ; Non-Operating : 40G/ 11ms (MIL-STD-810G)
Certification	CE / LVD / FCC Class B

Ordering Information

AMI222AF	Fanless box system with MB220AF, w/ Intel® Core™ i7/i5/i3 desktop Processor, 6x COM (from IP211 / IP212), 2x 4GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor, optional riser card
AMI222EF	Fanless box system with MB220EF, w/ Intel® Core™ i7/i5/i3 desktop Processor, 6x COM (from IP211 / IP212), 2x 4GB memoy, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor, optional riser card
150W power adaptor (optional)	150W (12V@12.5A) power adaptor, bare wire type Compatible with IEC62368-1/EN62368-1
Riser card kit (optional)	IP211 (ZM05IP211---0B1000P) w/ COM cable (2x C501PK1H009302A00P) IP212 (ZM05IP212---0A1000P) w/ COM cable (2x C501PK1H009302A00P) for AMI222
Optional Accessories	GPS antenna kit

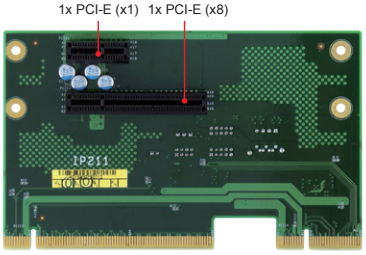
Recommended Processor list

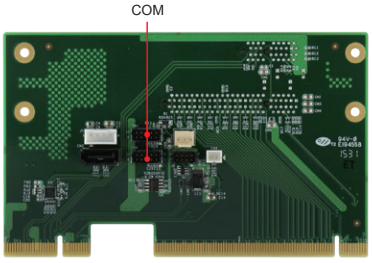
Model	TDP	Base Freq	Turbo Freq	Cache	Cores / Threads
i7-7700T	35W	2.9 GHz	3.8 GHz	8M	4/8
i7-6700TE	35W	2.4 GHz	3.4 GHz	8M	4/8
i5-7500T	35W	2.7 GHz	3.3 GHz	6M	4/4
i5-6500TE	35W	2.3 GHz	3.3 GHz	6M	4/4
i3-7101TE	35W	3.4 GHz	N/A	3M	2/4
i3-6100TE	35W	2.7 GHz	N/A	4M	2/4
G4400TE	35W	2.9 GHz	N/A	3M	2/2
G3900TE	35W	2.6 GHz	N/A	2M	2/2

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

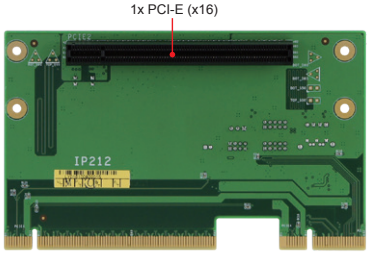
Expansion Cards

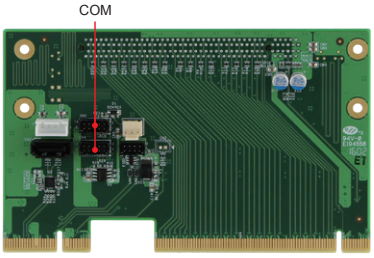
IP211



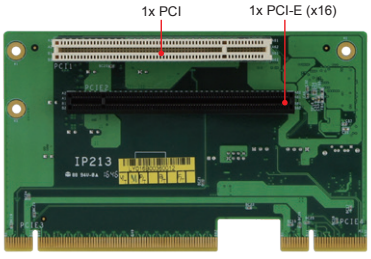


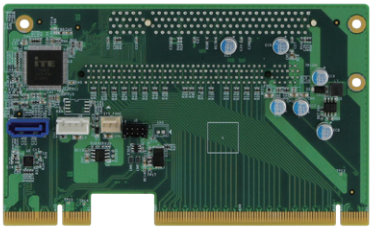
IP212





IP213

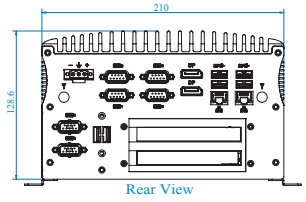


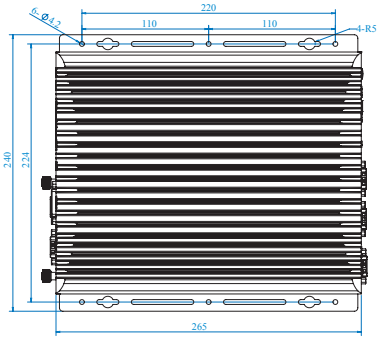


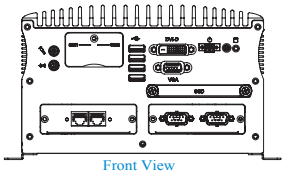
COM#5-6 from IP211/IP212

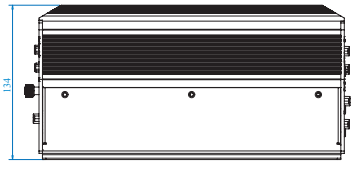


Dimensions and Drawing









AMI230

Compact Expandable Fanless System
Expandable Fanless & Ventless System with
9th/8th Gen Intel® Core™ i7/i5/i3 Desktop Processors (35W TDP)







Rear I/O

Features

- Fanless system with IBASE MB230 customized board
- 9th/8th Gen Intel® Core™ i7/i5/i3 Desktop Processors
- Dual SIM slots supports WWAN redundancy
- 4x RJ45 Gigabit Ethernet port (2x Supports 802.3at PoE+)
  3x M.2 (B-Key/E-Key/M-Key)
- Supports Over/Under/Reverse voltage protection
- iSMART, iAMT (11.6), TPM (2.0)

Specifications

System Mainboard	MB230AF with Intel® Q370 PCH MB230AF-P with Intel® Q370 PCH (supports PCI-E function for M.2 (B-KEY)
CPU Type	9th/8th Gen Intel® Core™ i7/i5/i3 Desktop Processors
System Speed	Up to 4.0 GHz
Memory	2x DDR4-2666/2400 SO-DIMM, Max. 32GB
Construction	Aluminum & steel
Chassis Color	Silver + Gray (Aluminum)
Front Panel External I/O	2x RS232/422/485 port for COM#1~COM#2 2x RS232 ports for COM#3~COM#4 1x DisplayPort (1.2) 2x RJ45 Gigabit Ethernet port (Supports 802.3at PoE+) 1x 5-pins DC-in terminal block type for 12V or 18V~24V 2x Antenna holes
Rear Panel External I/O	1x DVI-D + HDMI(1.4) 4x USB 3.1 ports 2x Antenna holes 2x RJ45 Gigabit Ethernet port+Dual USB 3.1 stack ports 1x Red HDD LED 1x power button with Green LED indicator 1x 2-pin terminal block 2x SIM card
Others	1x M.2 (E-Key) slot
Storage / M.2	1x 2.5 HDD/SSD, 2x M.2 (B-Key, M-Key) *M-key Supports NVMe SSD
Mounting	Desktop & wall mount
Dimensions	210mm(W) x 285mm(D) x 77mm(H)
Weight	4kg
Operating Temperature	-20°C to 70°C (-4°F~158°F) (for 35W CPU)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10~95%, non-condensing @60 degree C
Vibration	Operating : 3Grms / 5~500Hz
Shock	Operating : 20G / 11ms Non-operating : 40G / 11ms
Certification	CE/ FCC Class A/ LVD

Ordering Information

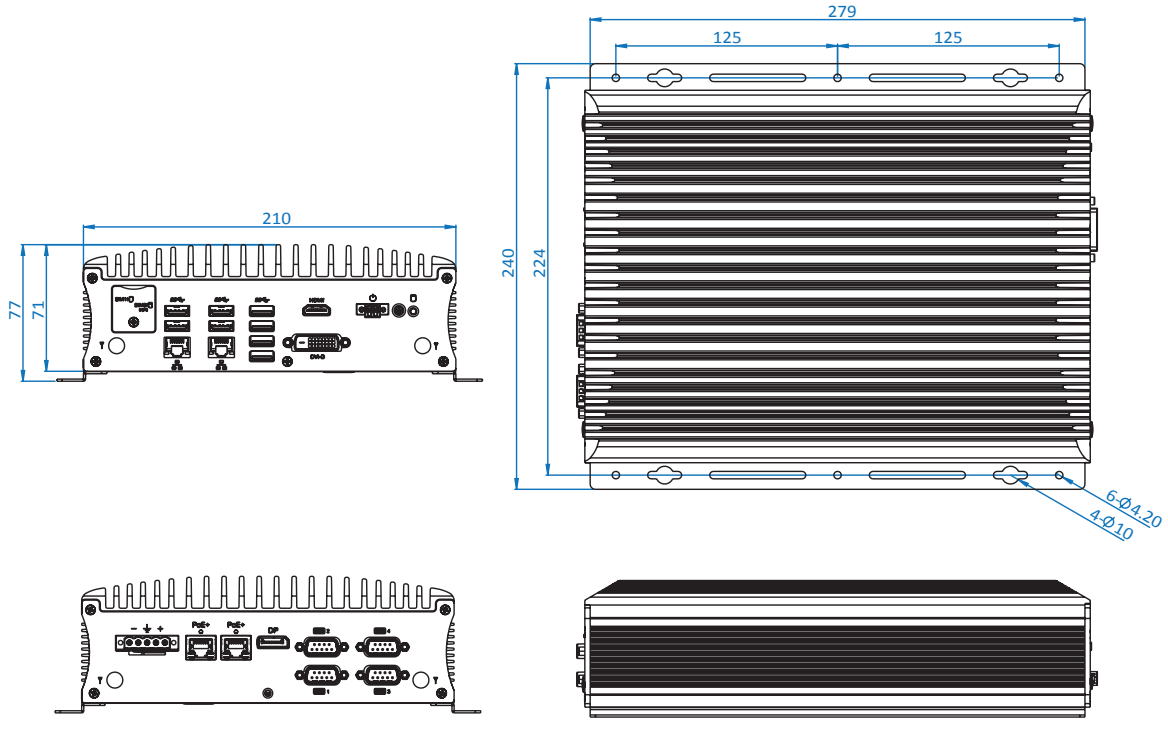
AMI230AF (Supports SIERRA module)	Fanless box System with MB230AF, w/ Intel® Core™ i7/i5/i3 desktop Processor, 4x COM, 1x 8GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor
AMI230AF-P	Fanless box System with MB230AF-P, w/ Intel® Core™ i7/i5/i3 desktop Processor, 4x COM, 1x 8GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor
270W Power Adaptor Kit (optional)	270W (24V@11.25A) power adaptor kit Compatible with IEC62368-1/EN62368-1
Optional Accessories	Global 4G antenna kit for Sierra Wireless EM7565 module, M.2 (M-KEY 2280) Thermal kit

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

Recommended Processor list

Model	TDP	Base Freq	Turbo Freq	Cache	Cores / Threads
i7-9700TE	35W	1.8 GHz	3.8 GHz	12M	8/8
i7-8700T	35W	2.4 GHz	4.0 GHz	12M	6/12
i5-9500TE	35W	2.2 GHz	3.6 GHz	9M	6/6
i5-8500T	35W	2.1 GHz	3.5 GHz	9M	6/6
i3-9100TE	35W	2.2 GHz	3.2 GHz	6M	4/4
i3-8100T	35W	3.1 GHz	N/A	6M	4/4
G5400T	35W	3.1 GHz	N/A	4M	2/4
G4900T	35W	2.9 GHz	N/A	2M	2/2

Dimensions and Drawing



AMI231

Compact Expandable Fanless System
Expandable Fanless & Ventless System with
9th/8th Gen Intel® Core™ i7/i5/i3 Desktop Processors (35W TDP)





Rear I/O

Features

- Fanless system with IBASE MB230 customized board
- 9th/8th Gen Intel® Core™ i7/i5/i3 Desktop Processors
- Dual SIM slots supports WWAN redundancy
- 4x RJ45 Gigabit Ethernet port (2x Supports 802.3at PoE+)
- 3x M.2 (B-Key/E-Key/M-Key)
- Supports Over/Under/Reverse voltage protection
- iSMART, iAMT (11.6), TPM (2.0)
- Flexible expansion slot system
- 2x 2.5" storage (Supports RAID 0/1)

Specifications

System Mainboard	MB230AF with Intel® Q370 PCH MB230AF-P with Intel® Q370 PCH (supports PCI-E function for M.2 (B-KEY)
CPU Type	9th/8th Gen Intel® Core™ i7/i5/i3 Desktop Processors
System Speed	Up to 4.00 GHz
Memory	2x DDR4-2666/2400 SO-DIMM, Max. 32GB
Construction	Aluminum & steel
Chassis Color	Silver + Gray (Aluminum)
Front Panel External I/O	1x RS232/422/485 port for COM#1~COM#2 3x RS232 ports for COM#3~COM#4 2x RS232 ports for COM#5~6 from optional IP214/5 1x DisplayPort (1.2) 2x RJ45 Gigabit Ethernet port (Supports 802.3at PoE+) 1x 5-pins DC-in terminal block type for 12V or 18V~24V 2x Antenna holes 1x expansion slot
Rear Panel External I/O	1x DVI-D + HDMI(1.4) 4x USB3.1 ports 2x Antenna holes 2x RJ45 Gigabit Ethernet port + Dual USB3.1 stack ports 1x Red HDD LED 1x power button with Green LED indicator 1x 2-pin terminal block 2x SIM Card (AMI231AF-P only supports 1x SIM Card)
Others	1x M.2 (E-Key)
Expansion	1x PCI-E (x16) 1x PCI-E (x4)
Storage/ M.2	2x 2.5 HDD/SSD, 2x M.2 (B-Key, M-Key) *M-Key Supports NVMe SSD
Mounting	Desktop & wall mount
Dimensions	210mm(W) x 285mm(D) x 109mm(H)
Weight	4.5 kg

Operating Temperature	-20°C to 70°C (-4°F~158°F) (for 35W CPU)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10~95%, non-condensing @60 degree C
Vibration	Operating : 3Grms / 5~500Hz
Shock	Operating : 20G / 11ms Non-operating : 40G / 11ms
Certification	CE / FCC Class A/ LVD

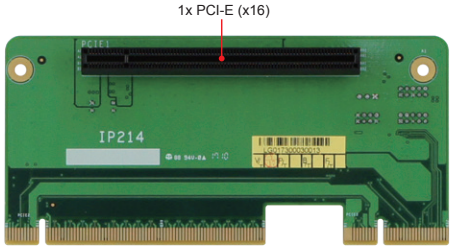
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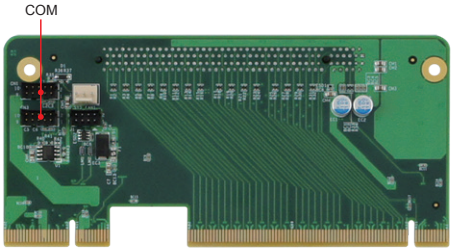
AMI231AF (Supports SIERRA module)	Fanless box System with MB230AF, w/ Intel® Core™ i7/i5/i3 desktop Processor, 6x COM (from IP214 / IP215), 1x 8GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor, optional riser card
AMI231AF-P	Fanless box System with MB230AF-P, w/ Intel® Core™ i7/i5/i3 desktop Processor, 6x COM (from IP214 / IP215), 1x 8GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor, optional riser card
330W Power Adaptor Kit (optional)	330W (24V@13.75A) power adaptor kit Compatible with IEC62368-1/EN62368-1
Riser card kit (optional)	IP214 (ZM05IP214---0A1000R) w/ COM cable (2x C501PK1H009302A00P) IP215 (ZM05IP215---0A1000R) w/ COM cable (2x C501PK1H009302A00P)
Optional Accessories	Global 4G antenna kit for Sierra Wireless EM7565 module, M.2 (M-KEY 2280) Thermal kit

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

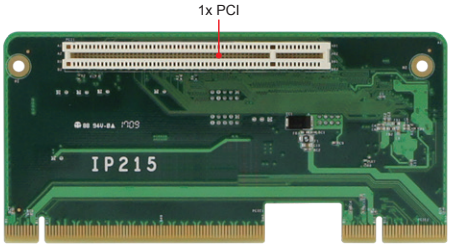
Expansion Cards

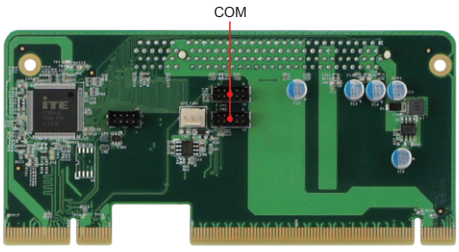
IP214



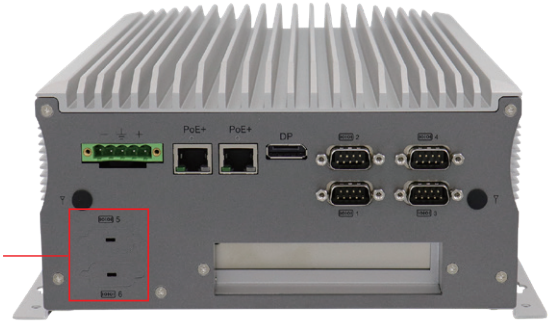


IP215

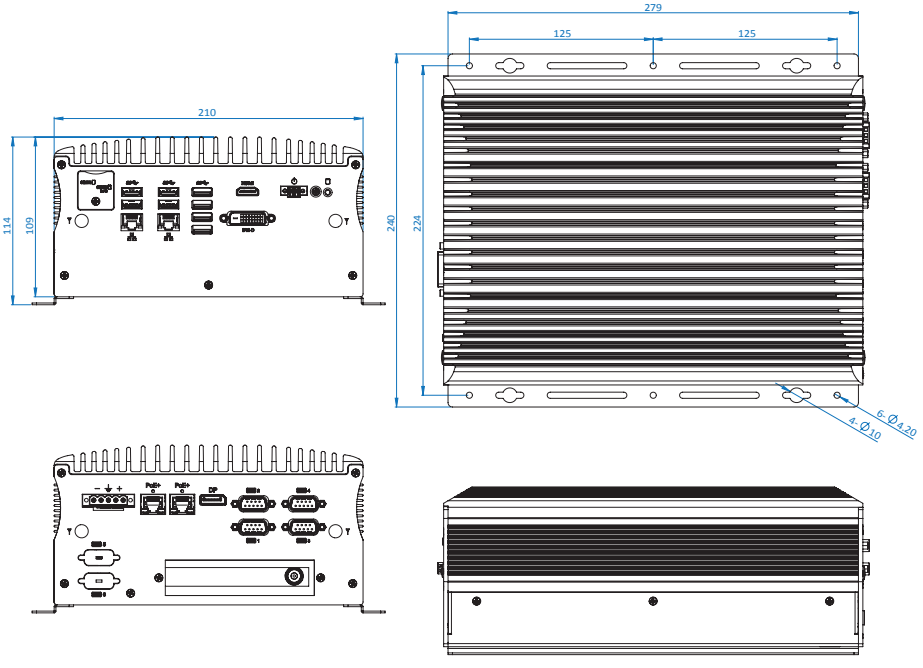




COM#5-6 From IP214 & IP215



Dimensions and Drawing



AMI232

Compact Expandable Fanless System
Expandable Fanless & Ventless System with
9th/8th Gen Intel® Core™ i7/i5/i3 Desktop Processors





Rear I/O

Features

- Fanless system with IBASE MB230 customized board
- 9th/8th Gen Intel® Core™ i7/i5/i3 Desktop Processors
- Dual SIM slots supports WWAN redundancy
- 4x RJ45 Gigabit Ethernet port (2x Supports 802.3at PoE+)
  3x M.2 (B-Key/E-Key/M-Key)
- Supports Over/Under/Reverse voltage protection
- iSMART, iAMT (11.6), TPM (2.0)
- Flexible expansion slot system
- 2x 2.5" storage (Supports RAID 0/1)

Specifications

System Mainboard	MB230AF with Intel® Q370 PCH MB230AF-P with Intel® Q370 PCH (supports PCI-E function for M.2 (B-KEY)
CPU Type	9th/8th Gen Intel® Core™ i7/i5/i3 Desktop Processors
System Speed	Up to 4.00 GHz
Memory	2x DDR4-2666/2400 SO-DIMM, Max. 32GB
Construction	Aluminum & steel
Chassis Color	Silver + Gray (Aluminum)
Front Panel External I/O	1x RS232/422/485 port for COM#1~COM#2 3x RS232 ports for COM#3~COM#4 2x RS232 ports for COM#5~6 from optional IP211/IP212 1x DisplayPort (1.2) 2x RJ45 Gigabit Ethernet port (Supports 802.3at PoE+) 1x 5-pins DC-in terminal block type for 12V or 18V~24V 2x Antenna holes 2x USB 2.0 from optional IP211/IP212/IP213 2x expansion slot
Rear Panel External I/O	1x DVI-D + HDMI(1.4) 4x USB3.1 ports 2x Antenna holes 2x RJ45 Gigabit Ethernet port + Dual USB3.1 stack ports 1x Red HDD LED 1x power button with Green LED indicator 1x 2-pin terminal block 2x SIM Card (AMI231AF-P only supports 1x SIM Card)
Others	1x M.2 (E-Key)
Expansion	1x PCI-E (x16) 1x PCI-E (x4)
Storage / M.2	2x 2.5 HDD/SSD, 2x M.2 (B-Key, M-Key) *M-Key Supports NVMe SSD
Mounting	Desktop & wall mount
Dimensions	210mm(W) x 285mm(D) x 129mm(H)
Weight	4.9 kg

Operating Temperature	-20°C to 70°C (-4°F~158°F) (for 35W CPU)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	5%~90%@45°C (non-condensing)
Vibration	Operating : 3Grms / 5~500Hz
Shock	Operating : 20G / 11ms Non-operating : 40G / 11ms
Certification	CE/ FCC ClassA/ LVD

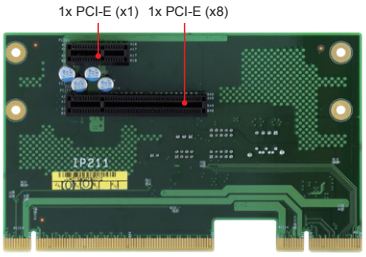
Ordering Information

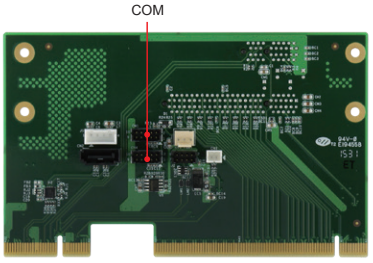
AMI232AF (Supports SIERRA module)	Fanless box System with MB230AF, w/ Intel® Core™ i7/i5/i3 desktop Processor, 6x COM (from IP211/ IP212) 4x COM (from IP213), 1x 8GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor, optional riser card
AMI232AF-P	Fanless box System with MB230AF-P, w/ Intel® Core™ i7/i5/i3 desktop Processor, 6x COM (from IP211/ IP212) 4x COM (from IP213), 1x 8GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor, optional riser card
330W Power Adaptor Kit (optional)	330W (24V@13.75A) power adaptor Kit Compatible with IEC62368-1/EN62368-1
Riser card kit (optional)	IP211 (ZM05IP211---0B1000R) w/ COM cable (2x C501PK1H009302A00P) IP212 (ZM05IP212---0A1000R) w/ COM cable (2x C501PK1H009302A00P) IP213 (ZM05IP213---0A1000R) w/o COM cable
Optional Accessories	Global 4G antenna kit for Sierra Wireless EM7565 module, M.2 (M-KEY 2280) Thermal kit

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

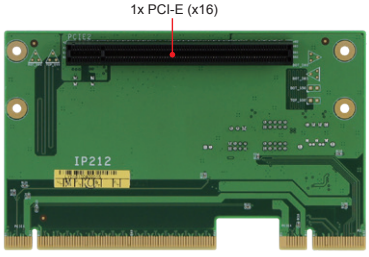
Expansion Cards

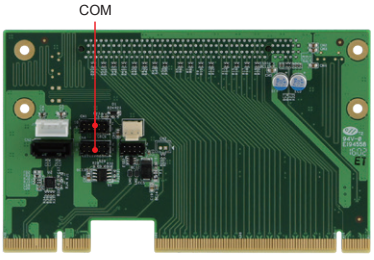
IP211



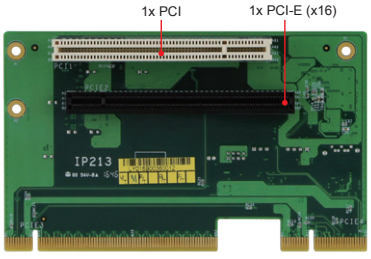


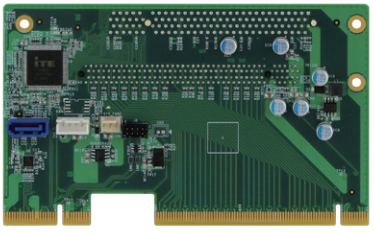
IP212





IP213

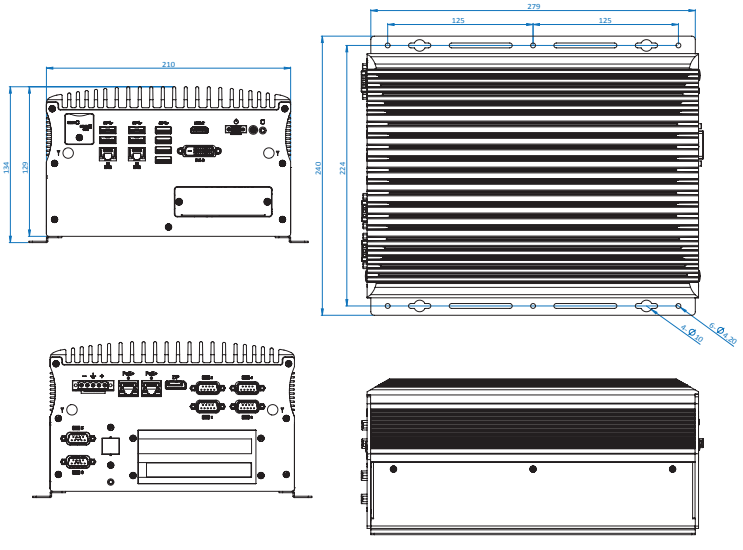




COM#5-6 from IP211 & IP212

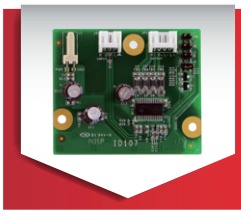


Dimensions and Drawing



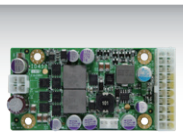
Embedded Function Cards

Daughter Boards and Function Cards



ID107

Features
- 55mm x 47mm
- Amplifier board
- TI TPA3110D2 on board



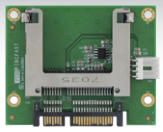
ID452

Features
- 90mm x 45mm
- 12V~24V DC-in to ATX power interface board



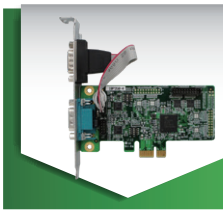
ID450-R

Features
- 90mm x 45mm
- 12V DC-in to ATX power interface board



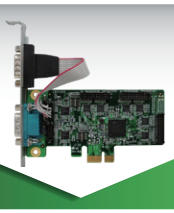
IB-CFAST

Features
- 72.4mm x 57.5mm
- SATA + power connector (CFast socket)



IBP358-4

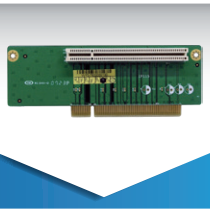
Features
- 103.06 mm x 55.27 mm
- PCI-E (1x) to 4x RS232 COM ports
- EXAR XR17V354 chipset



IBP358

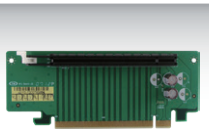
Features
- 103.06 mm x 55.27 mm
- PCI-E (1x) to 8x RS232 COM ports
- EXAR XR17V358 chipset

Riser Cards



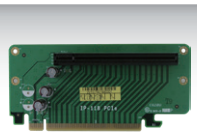
IP115

Features
- 139.7mm x 51.38mm
- 1x PCI interface to PCI



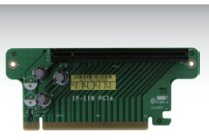
IP116-R

Features
- 139.7mm x 55.34mm
- 1x PCI-E (x16) interface to PCI-E (x16) slot



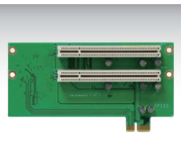
IP118

Features
- 119.63mm x 64.5mm
- 1x PCI-E (x16) interface to PCI-E (x16) slot



IP119

Features
- 123.96mm x 55.50mm
- 1x PCI-E (x16) interface to PCI-E (x16) slot



IP155

Features
- 139.7mm x 75.74mm
- ASM1083 chipset
- 1x PCI interface to 2x PCI slot

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

Embedded Function Cards

Riser Cards



IP242

Features

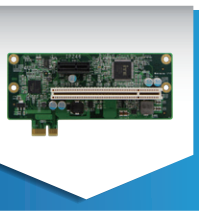
- 130mm x 65mm
- 1x PCI + PCI-E (x1) interface to PCI slot + 1x PCI-E (x1)



IP245

Features

- 130mm x 60mm
- IT8893E chipset
- PCI-E (x1) interface to 2x PCI slot



IP246

Features

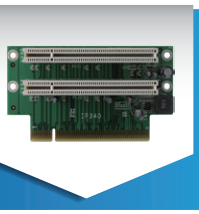
- 30mm x 60mm
- IT8893E & PEX8603 chipset
- 1x PCI-E (x1) to PCI + 1x PCI-E (x1) slot



IP271

Features

- 129.97mm x 51.25mm
- 1x PCI interface to PCI slot



IP340

Features

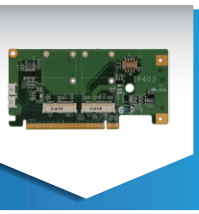
- 110mm x 62.5mm
- 2x PCI interface to PCI slot



IP390-R

Features

- 139.7mm x 75.74mm
- 1x PCI + PCI-E (x1) interface to PCI slot + 1x PCI-E (x1)



IP403

Features

- 144.6 mm x 68.3mm
- PCI-E (x16) interface to 2x Mini PCI-E



IP404

Features

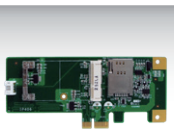
- 139.7mm x 75.74mm
- PCI-E (x16) interface to 2x PCI-E (x8)



IP405

Features

- 139.25mm x 62.78mm
- PCI-E (x16) interface to 2x PCI-E (x8)



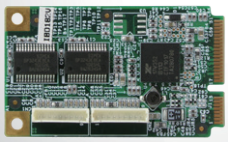
IP406

Features

- 123mm x 50.77mm
- 1x PCI-E (x1) interface to Mini PCI-E + 1x SIM card slot

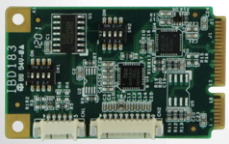
Mini PCI-E Cards with Expansion

IBD182



Features:
- PCI-E to 2x RS232
- XR17V352 chipset
- 50.95mm x 30mm

IBD183



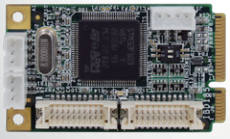
Features:
- USB to UART, 1x RS232+1x RS422/485
- XR21V1412 chipset
- 50.95mm x 30mm

IBD184



Features:
- PCI-E to 4x RS232
- XR17V354 chipset
- 50.95mm x 30mm

IBD185



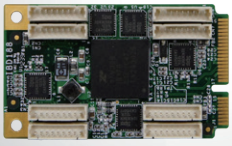
Features:
- USB to GPIO
- 16-in /16-out
- STM32F103V8 chipset
- 50.95mm x 30mm

IBD186



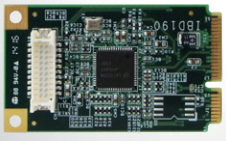
Features:
- PCI-E to 2x RS232 w/ Isolation
- XR17V352 & 2x LTM2882CY-3 chipset
- 50.95mm x 30mm

IBD188



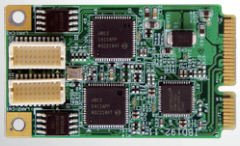
Features:
- PCI-E to 8x RS232
- XR17V358 chipset
- 50.95mm x 30mm

IBD190



Features:
- PCI-E to 1x GbE LAN
- 1x Intel® I211-AT chipset
- 50.95mm x 30mm

IBD192



Features:
- PCI-E to 2x GbE LAN
- 2x Intel® I211-AT or 2x Intel® I210-AT chipset
- 50.95mm x 30mm

IBD193



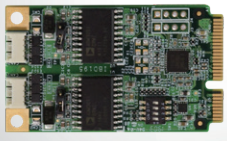
Features:
- PCI-E to MRAM storage
- 1x MR2A16ACYS35 chipset
- 50.95mm x 30mm

IBD194



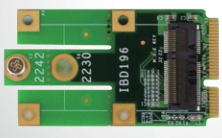
Features:
- USB to 2nd VGA Display
- Resolution up to 1920x 1080 (Max.)
- DisplayLink DL-165 chipset
- 50.95 mm x 30 mm

IBD195



Features:
- PCI-E to 2x CAN Bus
- Dual channel isolation
- 50.95mm x 30mm

IBD196



Features:
- Mini-PCI-E to M.2 E key
- 54.5mm x 30mm

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

CMI Series Chassis & Motherboard

CMI202 System



CMI203 System



CMI211 System



CMI212 System



CMI222 System



CMI300 System



Compatible Motherboard List

Model	CMI202	CMI211	CMI212	CMI203	CMI222	CMI300
MI992		V		V		
MI991	V	V	V	V		
MI990		V	V	V		
MI988						V
MI985		V				
MI982		V		V		
MI981		V	V	V		
MI980		V	V			
MI811					V	
MI808					V	
MI805					V	

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

CMI202-991

Mini-ITX Standard System
Expandable System with IBASE MI991AF Mini-ITX Motherboard



Rear I/O

Features

- 6th Generation Intel® Core™ i7/i5/i3 / Pentium® / Celeron® DT Processors
- 2x DDR4-2400 SO-DIMM, Max.32GB
- 4x DB9, 1x GPIO
- Supports DVI-D, HDMI and DisplayPort
- Add-on card dimension: up to 106mm x 200mm
- Dimensions 345mm(W) x 240mm(D) x 100mm(H)

Specifications

System Mainboard	MI991AF
CPU Type	6th Gen Intel® Core™ i7/i5/i3/Pentium/ Celeron® DT Processor
System Speed	Core™ i7-6700 (3.4GHz ~4.0 GHz)
Memory	2x 8G DDR4-2400 SO-DIMM, Max.32GB
Construction	SECC
Chassis Color	Black
Front Panel External I/O	N/A
Rear Panel External I/O	1x 2-pin DC input for 24v 1x 2-pin DC output for 12v 1x Power on/off button 1x reset button 1x Power LED, 1x HDD LED 1x DB9 (for GPIO 4-in & 4-out) 3x RS232 for COM#2~4 (2 ports thru pin header) 1x RS232/422/485 for COM#1 6x USB 3.0 ,2x USB2.0 2x system fans 2x RJ45, 1x Audio port for Line-in/Line-out/Mic-in 1x SPK Out (6W output) thru ID107 (Optional) 1x DVI-D, 1x HDMI, 1x DisplayPort
Storage	2x 2.5" SATA HDD or SSD
Power Supply	Industrial 250W DC input powered switching power supply Input Voltage: Direct 24V (DC) ±10%, 18A
Mounting	Wall mount & Dekstop

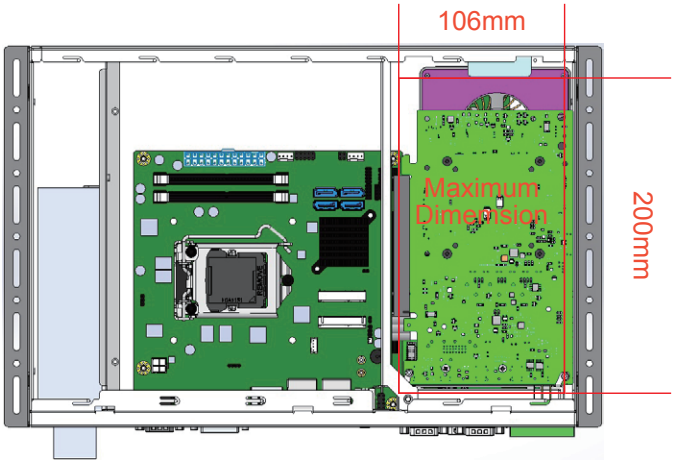
Dimensions	345mm (W) x 240mm (D) x 100mm (H) 13.5" (W) x 9.44" (D) x 3.93" (H)
Operating Temperature	0°C~45°C (32°F~113°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	5% ~ 90% @45C (Non-condensing)
Vibration	Non-Operating : 1.0 grms / 5~500Hz / random Operating : 0.25 grms / 5~500Hz / random
Certification	CE / LVD / FCC Class B (Pre-scan only)

Ordering Information

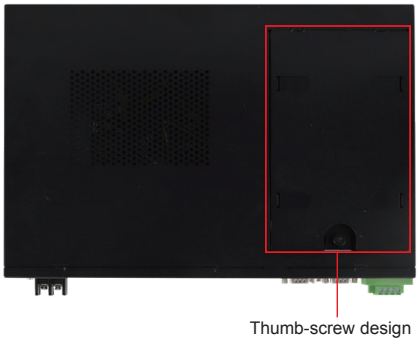
CMI202-991M	Chassis with MI991AF + IP118 riser card, w/o CPU, HDD, memory, w/ 250W PSU, 2.5" HDD holder, 1x PCI-E(x16) expansion slots (RoHS22)

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

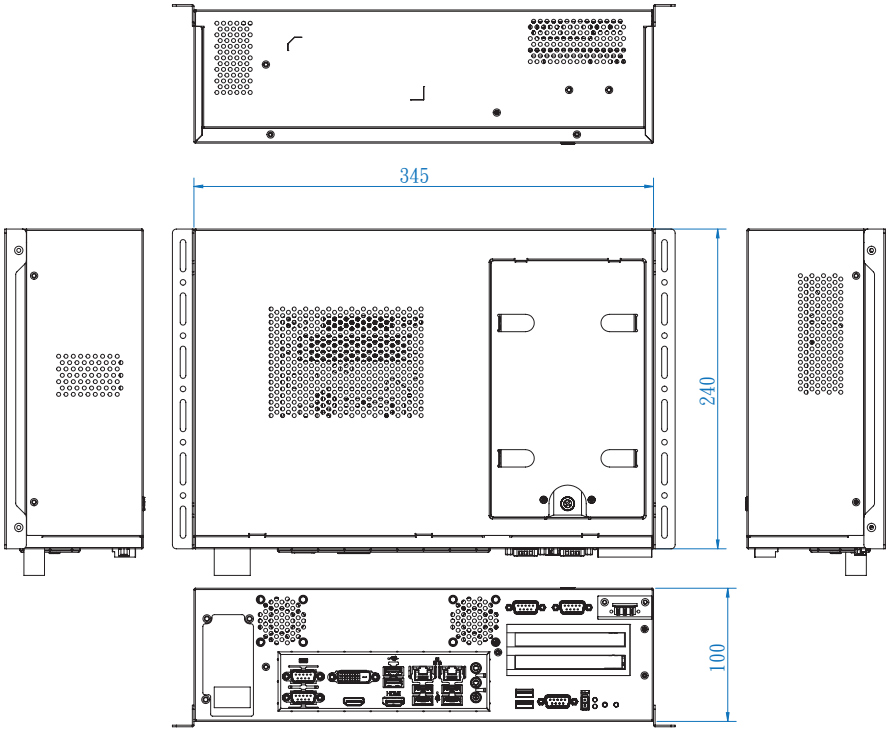
Chassis for Add-on card Dimensions (Max.)







Dimensions and Drawing



CMI203 System Family

Mini-ITX Standard System

Expandable System with IBASE Mini-ITX Motherboard

CMI203-992VF-X3G / CMI203-991 / CMI203-990 / CMI203-981 / CMI203-982

IEC 62368-1
EN 62368-1

PCI-E
(x16)



Rear I/O (Based on MI992VF-X3G & MI991 & MI990 I/O)





Rear I/O (Based on MI982 &MI981 I/O)

Specifications

Model		CMI203-992VF-X3G	CMI203-991	CMI203-990	CMI203-982	CMI203-981
System	Processor	7th Gen Intel® Kabylake-H mobile Processors	6th Gen Intel® Core™ i7/i5/ i3/ Pentium®/ Celeron® DT Processors	6th Gen Intel® Core™ i7/i5/ i3/ Pentium®/ Celeron® MB Processors	4th Gen Intel® Core™ i7/i5/ i3/ Pentium®/ Celeron® DT Processors	4th Gen Intel® Core™ i7/i5/ i3/ Pentium® / Celeron® DT Processors
	PCH	Intel® CM238	Intel® Q170(MI991AF) Intel® H110(MI991EF)	Intel® CM236 (MI990VF) Intel® HM170 (MI990EF)	Intel® H81 PCH	Intel® Q87 PCH
	Memory	1x DDR4-2400 SO-DIMM	2x DDR4-2133 SO-DIMM	2x DDR4-2133 SO-DIMM	2x DDR3L-1600 SO-DIMM	2x DDR3L-1600 SO-DIMM
I/O Interface	Front-side Panel I/O	N/A				
	Rear-side Panel I/O	1x AC-outlet, 1x Power button, 1x reset button 1x Power LED, 1x HDD LED 1x DB9M for GPIO (4-in & 4-out) 3x RS232 ports via pin header 2x USB 2.0 ports via pin header 2x system fans Based on different motherboard I/O ports				
Storage Interface	SATA / M.2	1 x 3.5" or 2.5" HDD drive bay, 1x M.2 (M-Key)	1x 3.5" or 2.5" HDD drive bay			
	mSATA	1x mSATA	1x mSATA	1x mSATA	N/A	1x mSATA
Expansion Slots	PCI-E Expansion	1x PCI-E (x16) expansion slot				
	Add-on card Max. Size	111mm(W) x 170mm(D) x 40mm(H)				
Power	ATX Power	Industrial 250W ATX power supply Input voltage: 100V ~ 240V Input frequency: 47Hz ~ 63Hz Compatible with IEC62368-1/EN62368-1				
Mechanical	Dimensions	345mm (W) x 225mm (D) x 100mm (H) 13.58" (W) x 8.86" (D) x 3.94" (H)				
	Weight	4.4kg	4.4kg	4.4kg	4.7kg	4.7kg
	Construction	SECC				
	Chassis Color	Black				
	Mounting Type	Wall mount & Desktop				
Environmental	Operating Temperature	0°C~45°C (32°F~113°F)				
	Storage Temperature	-20°C~80°C (-4°F~176°F)				
	Humidity	5% ~ 90% @45C (Non-condensing)				
	Vibration	Non-Operating : 1.0 grms / 5~500Hz / random Operating : 0.25 grms / 5~500Hz / random				
	Certification	CE / LVD / FCC Class B (Pre-scan only)				

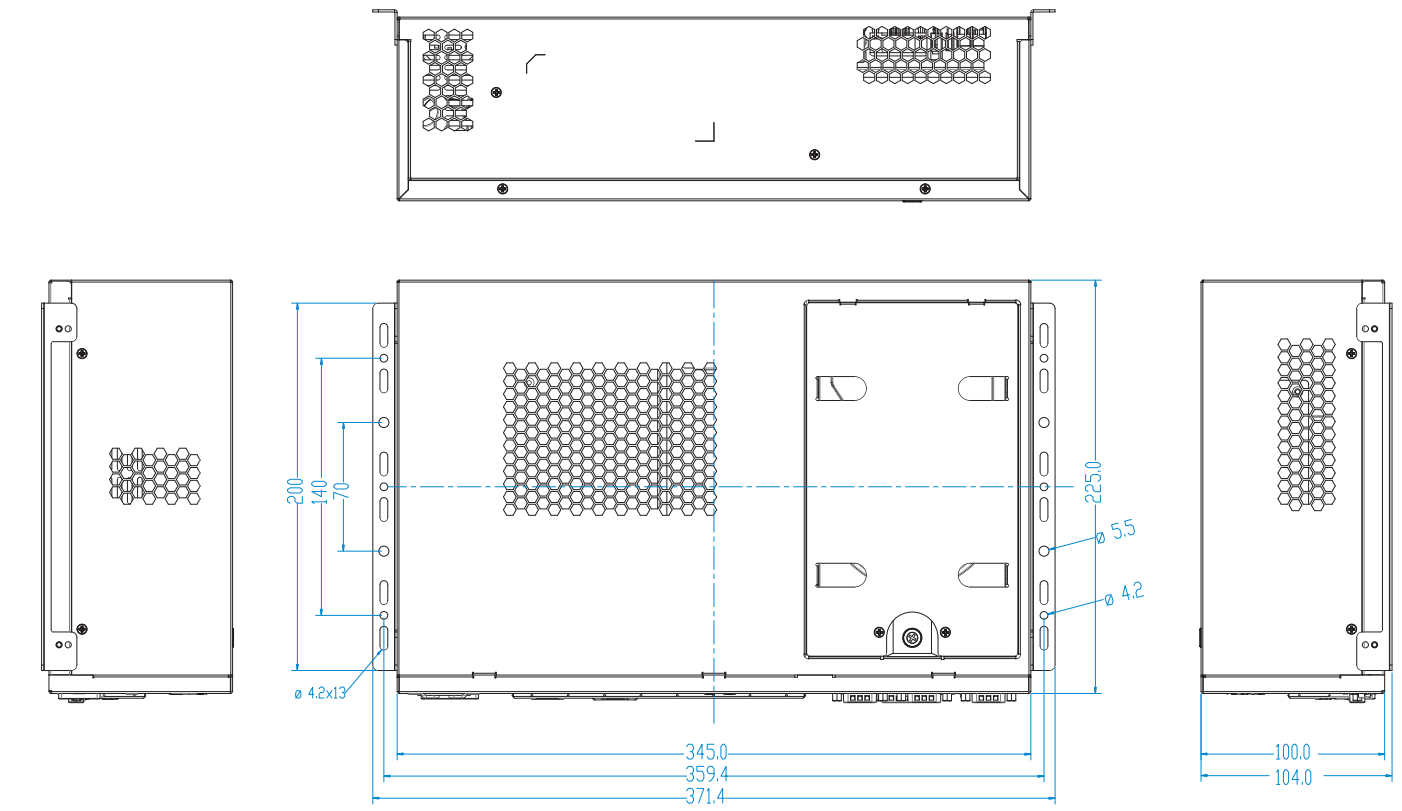
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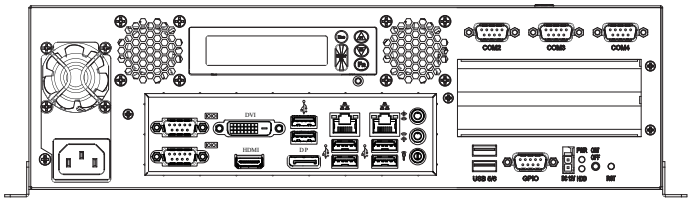
CMI203 System Family

Mini-ITX Standard System

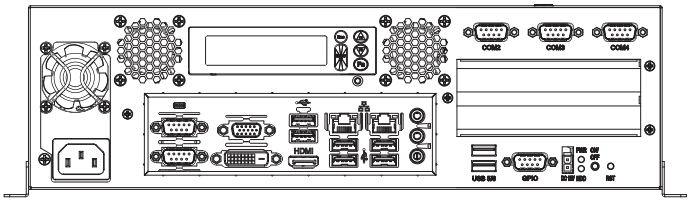
Expandable System with IBASE Mini-ITX Motherboard

Dimensions and Drawing





Based on MI992VF-X3G & MI991 & MI990 I/O



Based on MI982 &MI981 I/O

Ordering Information

CMI203-992VF-X3G	Chassis with MI992VF + IP118 riser card, w/ 250W PSU, CPU & memory & 500G HDD, 2.5" storage holder, mounting brackets, (RoHS2)
CMI203-992VF-X3GM	Chassis with MI992VF + IP118 riser card, w/ 250W PSU, CPU, 2.5" storage holder, w/o memory & HDD, 1x PCI-E(x16) expansion slot, (RoHS2)
CMI203-991AFM	Chassis with MI991AF + IP118 riser card, w/o CPU, HDD, memory, w/ 250W PSU, 2.5" HDD holder, 1x PCI-E (x16) expansion slot (RoHS2)
CMI203-991EFM	Chassis with MI991EF + IP118 riser card, w/o CPU, HDD, memory, w/ 250W PSU, 2.5" HDD holder, 1x PCI-E (x16) expansion slot (RoHS2)
CMI203-990-6820M	Chassis with MI990VF-6820 + IP118 riser card, w/o HDD, memory, w/ 250W PSU, 2.5" HDD holder, 1x PCI-E (x16) expansion slot (RoHS2)
CMI203-990-6440M	Chassis with MI990VF-6440 + IP118 riser card, w/o HDD, memory, w/ 250W PSU, 2.5" HDD holder, 1x PCI-E (x16) expansion slot (RoHS2)
CMI203-990-6100M	Chassis with MI990EF-6100 + IP118 riser card, w/o HDD, memory, w/ 250W PSU, 2.5" HDD holder, 1x PCI-E (x16) expansion slot (RoHS2)
CMI203-981M	Chassis with MI981AF + IP118 riser card, w/o CPU, HDD, memory, w/ 250W PSU, 2.5" HDD holder, 1x PCI-E (x16) expansion slot (RoHS2)
CMI203-982M	Chassis with MI982EF + IP118 riser card, w/o CPU, HDD, memory, w/ 250W PSU, 2.5" HDD holder, 1x PCI-E (x16) expansion slot (RoHS2)

CMI211 System Family

Mini-ITX Standard System

Expandable System with IBASE Mini-ITX Motherboard

CMI211-992VF-7820 / CMI211-991 / CMI211-990 / CMI211-985 / CMI211-980 / CMI211-981 / CMI211-982

IEC 62368-1
EN 62368-1

PCI-E
(x16)



Rear I/O (Based on MI992VF-7820 & MI991 & MI990 I/O)





Rear I/O (Based on MI985 & MI980 I/O)



Rear I/O (Based on MI982 & MI981 I/O)

Specifications

Model		CMI211-992VF-7820	CMI211-991	CMI211-990	CMI211-985	CMI211-982	CMI211-981	CMI211-980
System	Processor	7th Gen Intel® Kabylake-H mobile Processors	6th Gen Intel® Core™ i7/i5/i3/ Pentium®/ Celeron® DT Processors	6th Gen Intel® Core™ i7/i5/i3/ Pentium®/ Celeron® MB Processors	5th Gen Intel® Core™ i7/i5/i3 / Celeron® MB Processors	4th Gen Intel® Core™ i7/i5/i3 / Pentium®/ Celeron® DT Processors	4th Gen Intel® Core™ i7/i5/i3/ Pentium®/ Celeron® DT Processors	4th Gen Intel® Core™ i7/i5/ i3/ Celeron® MB Processors
	PCH	Intel® CM238 (MI992VF)	Intel® Q170 (MI991AF) Intel® H110 (MI991EF)	Intel® CM236 (MI990VF) Intel® HM170 (MI990EF)	Intel® QM87	Intel® H81 PCH	Intel® Q87 PCH	Intel® QM87 (MI980VF) Intel® HM86 (MI980F)
	Memory	2x DDR4 -2400 SO-DIMM	2x DDR4-2133 SO-DIMM	2x DDR4-2133 SO-DIMM	2x DDR3L-1600 SO-DIMM	2x DDR3L-1600 SO-DIMM	2x DDR3L-1600 SO-DIMM	2x DDR3L-1600 SO-DIMM
I/O Interface	Front-side Panel I/O	2x USB 2.0 ports						
	Rear-side Panel I/O	1x AC-inlet, 1x Power button 1x Power LED, 1x HDD LED 1x Antenna hole Based on different motherboard I/O ports						
Storage Interface	SATA	1x 2.5" HDD drive bay						
	mSATA	1x mSATA	1x mSATA	1x mSATA	1x mSATA	N/A	1x mSATA	1x mSATA
Expansion Slots	PCI-E Expansion	1x PCI-E (x16) expansion slot						
	Add-on card Max. Size	111mm(W) x 168mm(D) x 18mm(H)						
Power	ATX Power	Industrial 250W ATX power supply Input voltage: 100V ~ 240V Input frequency: 47Hz ~ 63Hz Compatible with IEC62368-1/EN62368-1						
Mechanical	Dimensions	300m (W) x 205mm (D) x 72mm (H) 11.81" (W) x 8.07" (D) x 2.83" (H)						
	Weight	2.91kg	3.1kg	2.8kg	2.8kg	3.1kg	3.1kg	2.8kg
	Construction	SECC						
	Chassis Color	Black						
	Mounting Type	Wall mount & Desktop						
Environmental	Operating Temperature	0°C~45°C (32°F~113°F)						
	Storage Temperature	-20°C~80°C (-4°F~176°F)						
	Humidity	5% ~ 90% @45C (Non-condensing)						
	Vibration	Non-Operating : 1.0 grms / 5~500Hz / random Operating : 0.25 grms / 5~500Hz / random						
	Certification	CE / LVD / FCC Class B (Pre-scan only)						

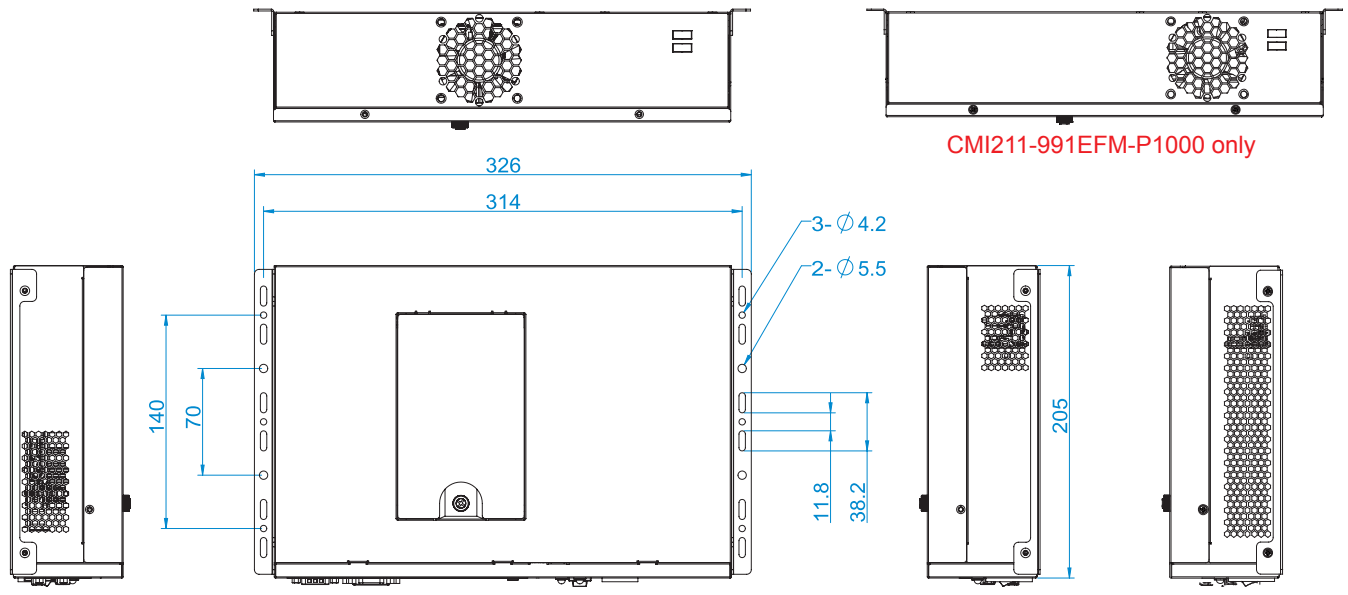
Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

CMI211 System Family

Mini-ITX Standard System

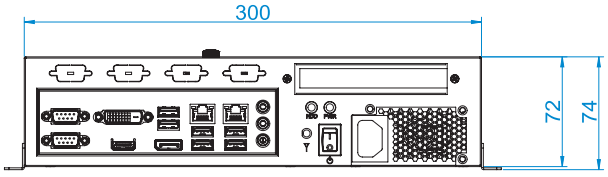
Expandable System with IBASE Mini-ITX Motherboard

Dimensions and Drawing

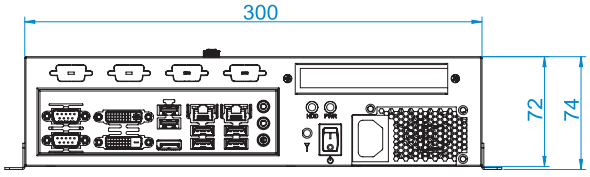


CMI211-991EFM-P1000 only

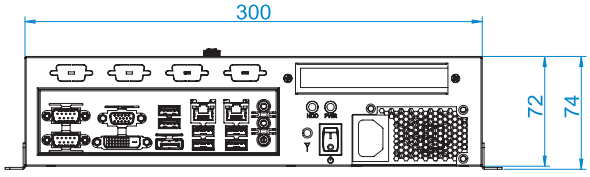
CMI211-991EFM -P1000 only



Based on MI992VF-7820 & MI991 & MI990 I/O



Based on MI985 & MI980 I/O



Based on MI982 & MI981 I/O

Ordering Information

CMI211-992VF-7820M	Chassis with MI992VF-7820 + IP119 riser card, w/o CPU, HDD, memory, w/ 250W PSU, 2.5" HDD holder, 1x PCI-E (x16) expansion slot (RoHS2)
CMI211-991AFM	Chassis with MI991AF + IP119 riser card, w/o CPU, HDD, memory, w/ 250W PSU, 2.5" HDD holder, 1x PCI-E (x16) expansion slot (RoHS2)
CMI211-991EFM	Chassis with MI991EF + IP119 riser card, w/o CPU, HDD, memory, w/ 250W PSU, 2.5" HDD holder, 1x PCI-E (x16) expansion slot (RoHS2)
CMI211-990-6820M	Chassis with MI990VF-6820E + IP119 riser card, w/o HDD, memory, w/ 250W PSU, 2.5" HDD holder, 1x PCI-E (x16) expansion slot (RoHS2)
CMI211-990-6440M	Chassis with MI990VF-6440E + IP119 riser card, w/o HDD, memory, w/ 250W PSU, 2.5" HDD holder, 1x PCI-E (x16) expansion slot (RoHS2)
CMI211-990-6100M	Chassis with MI990EF-6100E + IP119 riser card, w/o HDD, memory, w/ 250W PSU, 2.5" HDD holder, 1x PCI-E (x16) expansion slot (RoHS2)
CMI211-981M	Chassis with MI981AF + IP119 riser card, w/o CPU, HDD, memory, w/ 250W PSU, 2.5" HDD holder, 1x PCI-E (x16) expansion slot (RoHS2)
CMI211-982M	Chassis with MI982EF + IP119 riser card, w/o CPU, HDD, memory, w/ 250W PSU, 2.5" HDD holder, 1x PCI-E (x16) expansion slot (RoHS2)
CMI211-980-4700M	Chassis with MI980VF-4700EQ + IP119 riser card, w/o HDD, memory, w/ 250W PSU, 2.5" HDD holder, 1x PCI-E (x16) expansion slot (RoHS2)
CMI211-980-4400M	Chassis with MI980VF-4400E + IP119 riser card, w/o HDD, memory, w/ 250W PSU, 2.5" HDD holder, 1x PCI-E (x16) expansion slot (RoHS2)
CMI211-980-4100M	Chassis with MI980F-4100E + IP119 riser card, w/o HDD, memory, w/ 250W PSU, 2.5" HDD holder, 1x PCI-E (x16) expansion slot (RoHS2)
CMI211-985-Q26M	Chassis with MI985AF-Q26 + IP119 riser card, w/o HDD, memory, w/ 250W PSU, 2.5" HDD holder, 1x PCI-E (x16) expansion slot (RoHS2)
CMI211-985-Q27M	Chassis with MI985AF-Q27e + IP119 riser card, w/o HDD, memory, w/ 250W PSU, 2.5" HDD holder, 1x PCI-E (x16) expansion slot (RoHS2)

CMI212 System Family

Mini-ITX Standard System

Expandable System with IBASE Mini-ITX Motherboard

CMI212-991 / CMI212-990 / CMI212-981 / CMI212-980

IEC 62368-1
EN 62368-1

PCI-E (x8)

PCI-E (x8)



Rear I/O (Based on MI991 & MI990 I/O)





Rear I/O (Based on MI981 I/O)



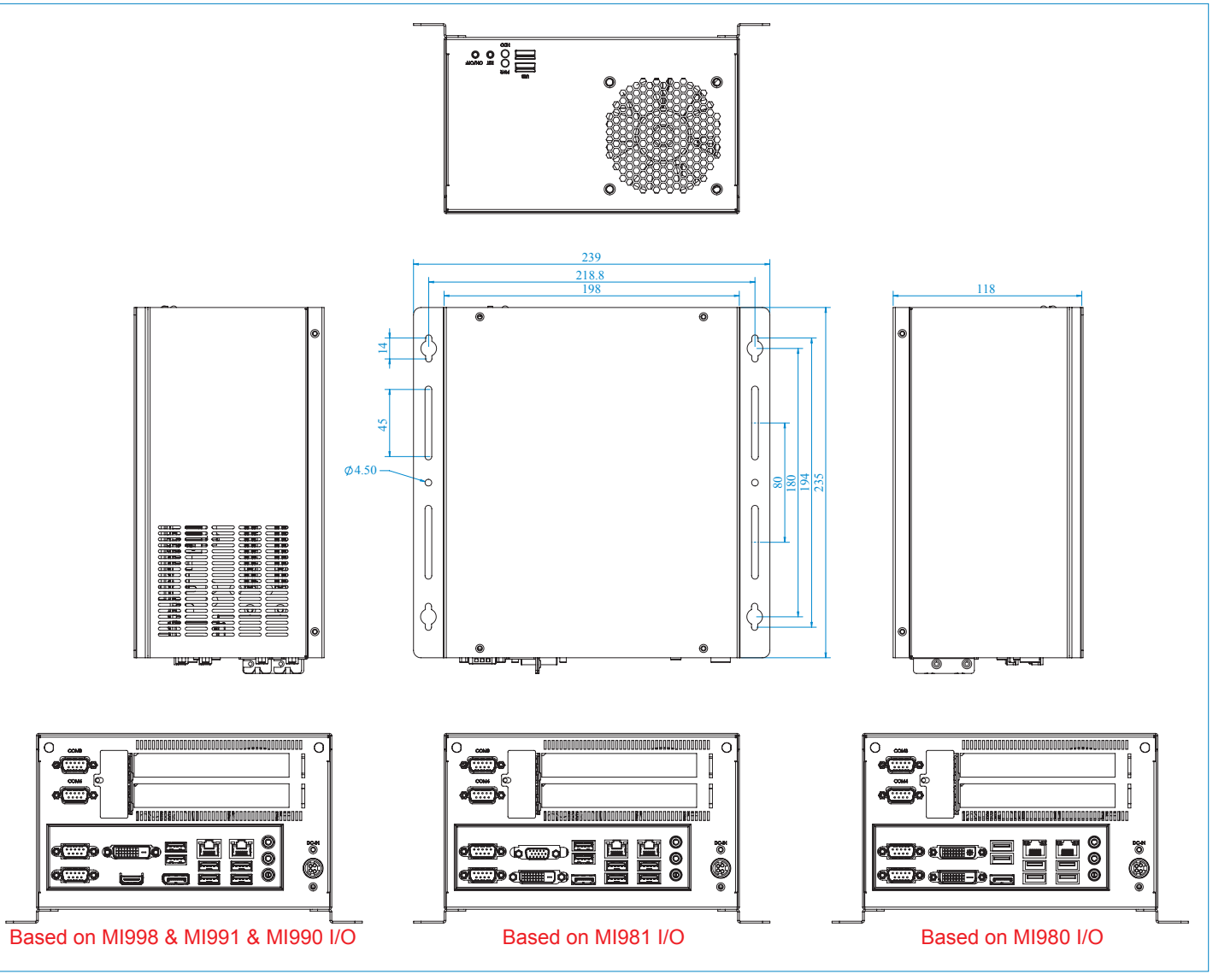
Rear I/O (Based on MI980 I/O)

Specifications

Model		CMI212-991	CMI212-990	CMI212-981	CMI212-980
System	Processor	6th Gen Intel® Core™ i7/i5/ i3/ Pentium® / Celeron® DT Processors	6th Gen Intel® Core™ i7/i5/ i3/ Pentium®/ Celeron® MB Processors	4th Gen Intel® Core™ i7/i5/ i3/ Pentium®/ Celeron® DT Processors	4th Gen Intel® Core™ i7/i5/i3/ Celeron® MB Processors
	PCH	Intel® Q170(MI991AF)	Intel® CM236 (MI990VF) Intel® HM170 (MI990EF)"	Intel® Q87 PCH	Intel® QM87 (MI980VF) Intel® HM86 (MI980F)"
	Memory	2x DDR4-2133 SO-DIMM	2x DDR4-2133 SO-DIMM	2x DDR3L-1600 SO-DIMM	2x DDR3L-1600 SO-DIMM
I/O Interface	Front-side Panel I/O	1x Power LED, 1x HDD LED 1x Power button, 1x reset button 2x USB 2.0 ports			
	Rear side Panel I/O	2x RS232 ports via pin header 2x Antenna hole 1x DC-jack for power input Based on different motherboard I/O ports			
Storage Interface	SATA / M.2	1x 2.5" HDD drive bay			
	mSATA	1x mSATA	1x mSATA	1x mSATA	1x mSATA
Expansion Slots	PCI-E Expansion	2x PCI-E (x16) expansion slots (2x PCI-E (x8) signal)			
	Add-on Card Max. Size	111mm(W) x 185mm(D) x 17mm(H) (For MI990/MI980) 111mm(W) x 185mm(D) x 11mm(H) (For MI991/MI981)			
Power	AC Adapter	150W power adaptor Input voltage: 100V~240V Input frequency: 47Hz~63Hz Output voltage: 12V Output current: 0A to 12.5A Compatible with IEC62368-1/EN62368-1			
Mechanical	Dimensions	198m (W) x 235mm (D) x 118mm (H) 7.8" (W) x 9.25" (D) x 4.65" (H)			
	Weight	3kg	2.7kg	3kg	2.7kg
	Construction	SGCC			
	Chassis Color	Black			
	Mounting Type	Wall mount & Desktop			
Environmental	Operating Temperature	0°C~45°C (32°F~113°F)			
	Storage Temperature	-20°C~80°C (-4°F~176°F)			
	Humidity	5% ~ 90% @45C (Non-condensing)			
	Vibration	Non-Operating : 1.0 grms / 5~500Hz / random Operating : 0.25 grms / 5~500Hz / random			
	Certification	CE / LVD / FCC Class B (Pre-scan only)			

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

Dimensions and Drawing



Based on MI998 & MI991 & MI990 I/O

Based on MI981 I/O

Based on MI980 I/O

Ordering Information

CMI212-991AFM	Chassis with MI991AF + IP404 riser card, w/o CPU, HDD, memory, w/ 150W power adaptor, 2.5" HDD holder, 2x PCI-E (x16) expansion slots (with PCI-E (x8) signal) (RoHS2)
CMI212-991EFM	Chassis with MI991EF + IP404 riser card, w/o CPU, HDD, memory, w/ 150W power adaptor, 2.5" HDD holder, 2x PCI-E (x16) expansion slots (with PCI-E (x8) signal) (RoHS2)
CMI212-990-6820M	Chassis with MI990VF-6820 + IP404 riser card, w/o HDD, memory, w/ 150W power adaptor, 2.5" HDD holder, 2x PCI-E (x16) expansion slots (with PCI-E (x8) signal) (RoHS2)
CMI212-990-6440M	Chassis with MI990VF-6440 + IP404 riser card, w/o HDD, memory, w/ 150W power adaptor, 2.5" HDD holder, 2x PCI-E (x16) expansion slots (with PCI-E (x8) signal) (RoHS2)
CMI212-990-6100M	Chassis with MI990EF-6100 + IP404 riser card, w/o HDD, memory, w/ 150W power adaptor, 2.5" HDD holder, 2x PCI-E (x16) expansion slots (with PCI-E (x8) signal) (RoHS2)
CMI212-981M	Chassis with MI981AF + IP404 riser card, w/o CPU, HDD, memory, w/ 150W power adaptor, 2.5" HDD holder, 2x PCI-E (x16) expansion slots (with PCI-E (x8) signal) (RoHS2)
CMI212-980-4700M	Chassis with MI980VF-4700EQ + IP404 riser card, w/o HDD, memory, w/ 150W power adaptor, 2.5" HDD holder, 2x PCI-E (x16) expansion slots (with PCI-E (x8) signal) (RoHS2)
CMI212-980-4400M	Chassis with MI980VF-4400E + IP404 riser card, w/o HDD, memory, w/ 150W power adaptor, 2.5" HDD holder, 2x PCI-E (x16) expansion slots (with PCI-E (x8) signal) (RoHS2)
CMI212-980-4100M	Chassis with MI980F-4100E + IP404 riser card, w/o HDD, memory, w/ 150W power adaptor, 2.5" HDD holder, 2x PCI-E (x16) expansion slots (with PCI-E (x8) signal) (RoHS2)

CMI221-981

Mini-ITX Standard System
Expandable System with IBASE MI981AF Mini-ITX Motherboard











Rear I/O

Features

- 4th Gen Intel® Core™ i7/i5/i3/ Pentium®/ Celeron® Processors, Up to 4.0GHz
- Dual-channel memory, up to 16GB DDR3
- Supports VGA, DVI-D & DisplayPort
- Removable 2.5" storage (supports RAID 0/1)
- 1x Mini PCI-E, 1x mSATA, 1x PCI-E expansion slot
- Supports Intel® iAMT(9.1) and TPM(1.2)

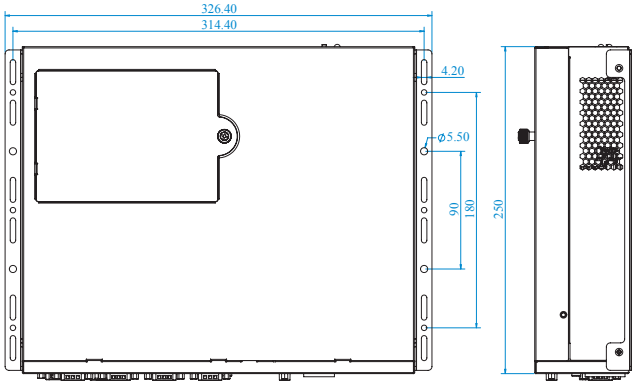
Specifications

System Mainboard	MI981AF
CPU Type	Intel® Core™ i7/i5/i3/ Pentium®/ Celeron® Processors
System Speed	Up to 3.9GHz
Memory	2x DDR3/DDR3 DIMM. Max. 16GB (Non-ECC)
Construction	SECC
Chassis Color	Black
Front Panel External I/O	1x Power LED1x HDD LED 1x Power On/Off button, 1x Reset button 2x USB 2.0
Rear Panel External I/O	6x COM ports (COM1: RS-232/422/485) (COM2~COM6: RS-232) 6x USB 3.0 2x RJ45 (Gigabit LAN) 1x VGA, 1x DVI-D, 1x DP Line-In, Line-Out, Mic-In 4x Digital Input + 4x Digital Output 1x AC power inlet
Storage	1x mSATA, 2x 2.5" SATA drive bay
Power Supply	Industrial 250W ATX power supply (80-plus) 100V~240V Input voltage 50Hz~60Hz Input frequency
Mounting	Desktop or wall mount
Dimensions	300mm(W) x 250mm(D) x 72mm(H) 11.81" (W) x 9.84" (D) x 2.83" (H)
Operating Temperature	0°C~ 45°C (32°F~113°F) (with HDD) -10°C ~ 50°C (14°F ~ 122°F) (with SSD)
Storage Temperature	-20°C ~ 80°C (-4°F ~ 176°F)
Relative Humidity	10% ~ 90% (Non-condensing)
Vibration	1G / 5 ~ 500Hz
Certification	CE / LVD / FCC Class B

Ordering Information

CMI221-981	Industrial Embedded Controller with Intel® i5-4570S CPU (6MB up to 3.96GHz), 2x 2GB DDR3 SO-DIMM, 2x 2.5" 500GB HDD, Riser card and 250W power supply
CMI221-981M	Barebone Industrial Embedded Controller + IP119 without CPU/RAM/HDD, Riser card and 250W power supply

Dimensions and Drawing



Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

CMI221-991

Mini-ITX Standard System
Expandable System with IBASE MI991AF Mini-ITX Motherboard



Rear I/O

Features

- Supports 6th Gen Intel® Core™ i7/i5/i3/Pentium®/ Celeron® Processors,
- Dual channel memory, up to 32GB DDR4
- Supports DVI-D,HDMI & DisplayPort
- Removable 2.5" storage (Supports RAID 0/1)
- Supports 1x Mini PCI-E, 1x mSATA, 1x PCI-E expansion slot
- Supports Intel® iAMT(9.1) and TPM(1.2)
- Long-term supply & supports

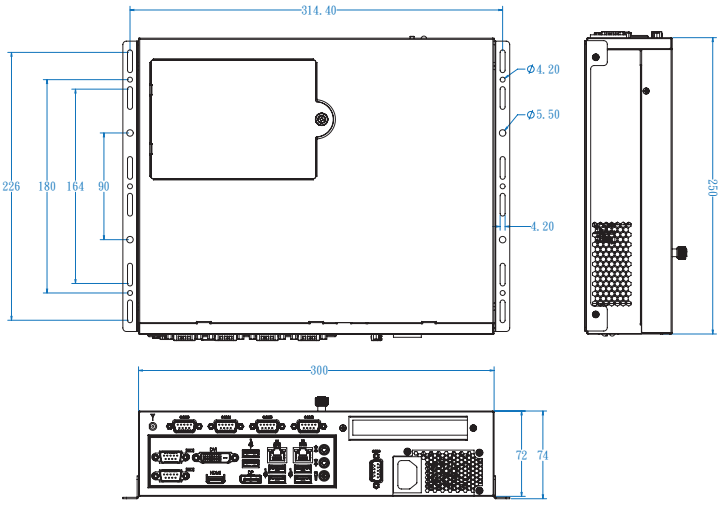
Specifications

System Mainboard	MI991AF
CPU Type	Intel® Core™ i7/i5/i3/Pentium DT Processor TDP: 35W
System Speed	i7-6700TE (2.4GHz ~ 3.4GHz) i5-6500TE (2.3GHz ~ 3.3GHz)
Memory	2x DDR4 8G/2400 DIMM. Max. 32GB (Non-ECC)
Construction	SECC
Chassis Color	Black
Front Panel External I/O	1x Power LED1x HDD LED 1x Power On/Off button, 1x Reset button 2x USB 2.0
Rear Panel External I/O	1x RS-232/422/485 for COM#1 3x RS-232 for COM#2~4 2x RS-232 for COM#5~6 ports(CMI221-991-6COM Series only) 6x USB 3.0 2x GbE LAN 1x DVI-D, 1x HDMI, 1x DP Line-In, Line-Out, Mic-In 4x Digital Input + 4x Digital Output 1x AC power inlet
Storage	1x mSATA, 2x 2.5" SATA Drive Bay (2nd storage cable reserved)
Power Supply	Industrial 250W ATX power supply (80-plus) 100V ~ 240V Input Voltage50Hz ~ 60Hz Input frequency Compatible with IEC62368-1/EN62368-1
Mounting	Desktop or wall mount
Dimensions	300m(W) x 250mm(D) x 72mm(H) 11.81" (W) x 9.84" (D) x 2.83" (H)
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)
Storage Temperature	-20°C ~ 80°C (-4°F ~ 176°F)
Relative Humidity	5%~90%@45°C (non-condensing)
Vibration	Operating : 0.25Grms / 5~500Hz Non-operating : 1Grms / 5~500Hz
Certification	CE/ FCC Class A/ LVD

Ordering Information

CMI221-991-6COM-I7	Chassis with MI991AF + IP119+ IBD182V, w/ Intel® Core™ i7-6700TE CPU + CPU cooler , 2x 8GB DDR4 memory, 1x 1TB 2.5" SATA HDD, w/ 250W power supply
CMI221-991-6COM-I5	Chassis with MI991AF + IP119+ IBD182V, w/ Intel® Core™ i5-6500TE CPU + CPU cooler ,2x 8GB DDR4 memory, 1x 1TB 2.5" SATA HDD, w/ 250W power supply
CMI221-991M	Chassis with MI991AF + IP119 + CPU cooler, w/o CPU, Storage, memory, w/ 250W power supply 2.5" SSD/HDD holder, 1x PCI-E(x16) expansion

Dimensions and Drawing



CMI221-995

AIOT Solution compatible with AI Function Cards
Expandable System with IBASE MI995EF Mini-ITX Motherboard





Features

- Supports 8th Generation Intel® Core™ i3 Processors
- Dual channel memory, up to 32GB DDR4 (Supports ECC by CPU SKUs)
- Supports DVI-D, HDMI (2.0a) & DisplayPort
- 4x DB9, 2x RS232/422/485 for COM#1~#2, 2x RS232 for COM#3~#4
- Removable 2.5" storage (Supports RAID 0/1)
- Supports 1x Mini PCI-E, 1x PCI-E (x16), 2x M.2 (E-Key, M-Key) expansion
- Intel® iAMT(11.6), TPM(2.0), iSMART
- Thumb-screw design for easy maintenance

Specifications

System Mainboard	MI995EF-8100 (Core™ i3-8100H on board)
CPU Type	8th Gen Intel® Core™ mobile Processor
Memory	2x DDR4 2400 SO-DIMM Max. 32GB
Construction	SECC
Chassis Color	Black
Front Panel External I/O	1x Power LED,1x HDD LED 1x Power On/Off button 1x Reset button 2x USB2.0
Rear Panel External I/O	4x DB9, 2x RS232/422/485 for COM#1~#2 2x RS232 for COM#3~#4 6x USB 3.1 2x RJ45 (Gigabit LAN) Supports eDP,1x HDMI(2.0a),1x DVI-D,1x DisplayPort Line-In, Line-Out, Mic-In 4x Digital Input +4x Digital Output 1x AC power inlet
Storage	1x mSATA, 2x 2.5" SATA drive bay 1x M.2 (M-Key 2280)
Others	1x M.2 (E-Key 2230)
Power Supply	Industrial 250W ATX power supply (80-plus) 100V~240V input voltage 50Hz~60Hz input frequency Compatible with IEC62368-1/EN62368-1
Mounting	Desktop
Dimensions	300mm(W) x 250mm(D) x 72mm(H) 11.81"(W) x 9.84"(D) x 2.83"(H)
Operating Temperature	0°C ~45°C (32°F~113°F) with HDD -10°C ~50°C (14°F~122°F) with SSD
Storage Temperature	-20°C ~80°C (-4°F~176°F)
Relative Humidity	5%~90% (non-condensing)
Vibration	1G/5~500Hz
Certification	CE/LVD /FCC Class A (Prescan only)

Ordering Information

CMI221-995M	Barebone Industrial Embedded Controller with Intel® HM370/ Core™ i3-8100H+ IP119 w/o RAM/HDD, Riser card and 250W power supply Compatible with IEC62368-1/ EN62368-1

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

CMI221-996

AIOT Solution compatible with AI Function Cards
Expandable System with IBASE MI996EF Mini-ITX Motherboard





Features

- Supports 9th Generation Intel® Core™ i3 Processors
- Dual channel memory, up to 32GB DDR4
- Supports eDP, HDMI(2.0a) / DVI-D and DisplayPort
- 4x DB9, 2x RS232/422/485 for COM#1~#2, 2x RS232 for COM#3~#4
- Removable 2.5" storage (Supports RAID 0/1)
- Supports 1x PCI-E (x16), 1x Mini PCI-E, 2x M.2 (E-Key, M-Key) expansion
- Watchdog timer, Digital I/O, iAMT (11.6), TPM(2.0), iSMART
- Thumb-screw design for easy maintenance

Specifications

System Mainboard	MI996EF-9100 (Core™ i3-9100HL on board)
CPU Type	9th Gen Intel® Core™ mobile Processor
Memory	2x DDR4 2666 SO-DIMM Max. 32GB
Construction	SECC
Chassis Color	Black
Front Panel External I/O	1x Power LED,1x HDD LED 1x Power On/Off button 1x Reset button 2x USB2.0
Rear Panel External I/O	4x DB9, 2x RS232/422/485 for COM#1~#2 2x RS232 for COM#3~#4 6x USB 3.1 2x RJ45 (Gigabit LAN) Supports eDP,1x HDMI(2.0a),1x DVI-D,1x DisplayPort Line-In, Line-Out, Mic-In 4x Digital Input +4x Digital Output 1x AC power inlet
Storage	1x mSATA, 2x 2.5" SATA drive bay 1x M.2 (M-Key 2280)
Others	1x M.2 (E-Key 2230)
Power Supply	Industrial 250W ATX power supply (80-plus) 100V~240V input voltage 50Hz~60Hz input frequency Compatible with IEC62368-1/EN62368-1
Mounting	Desktop
Dimensions	300mm(W) x 250mm(D) x 72mm(H) 11.81"(W) x 9.84"(D) x 2.83"(H)
Operating Temperature	0°C ~45°C (32°F~113°F) with HDD -10°C ~50°C (14°F~122°F) with SSD
Storage Temperature	-20°C ~80°C (-4°F~176°F)
Relative Humidity	5%~90% (non-condensing)
Vibration	1G/5~500Hz
Certification	CE/LVD /FCC Class A (Prescan only)

Ordering Information

CMI221-996M	Barebone Industrial Embedded Controller with Intel® HM370/ Core™ i3-9100HL+ IP119 w/o RAM/HDD, Riser card and 250W power supply Compatible with IEC62368-1/ EN62368-1

CMI222 System Family

Mini-ITX Standard System

Expandable System with IBASE Mini-ITX Motherboard

CMI222-811 / CMI222-808 / CMI222-805

IEC 62368-1
EN 62368-1

PCI-E (x1)

PCI



Rear I/O (Based on MI811 I/O)





Rear I/O (Based on MI808 I/O)



Rear I/O (Based on MI805 I/O)

Specifications

Model		CMI222-811	CMI222-808	CMI222-805
System	Processor	Intel® Atom™ QC/DC x7/x5 Processor	Intel® Pentium® N3710 / Celeron® N3010 Processor	Intel® Celeron® QC J1900 SoC
	PCH	N/A	N/A	N/A
	Memory	2x DDR3L-1866 SO-DIMM	2x DDR3L-1600 SO-DIMM	2x DDR3L-1333 SO-DIMM
I/O Interface	Front side Panel I/O	1x Power LED, 1x HDD LED 1x Power button 2x USB 2.0 ports 8x DB9M ports (Reserved hole)		
	Rear side Panel I/O	4x RS232 ports thru pin header 1x Antenna hole 1x 3-pin terminal block for power input or DC-jack type 1x 10-pin terminal block for GPIO (4-in & 4-out) Based on different motherboard I/O ports		
Storage Interface	SATA	1x 2.5" HDD drive bay		
	mSATA	1x mSATA	1x mSATA	1x mSATA
Expansion Slots	PCI-E Expansion	2x PCI slot (IP245 riser card), 1x PCI + 1x PCI-E (x1) slots (IP246 riser card)		
	Add-on Card Max. Size	111mm(W) x 168mm(D) x 17mm(H) (For PCI-E card) 106mm(W) x 175mm(D) x 17mm(H) (For PCI card)		
Power	AC Adapter	84W power adaptor Input voltage: 90V~264V Input frequency: 47Hz~63Hz Output voltage: 12V Output current: 0A to 7A Compatible with IEC62368-1/EN62368-1		
Mechanical	Dimensions	300mm (W) x 235mm (D) x 83mm (H) 11.81" (W) x 9.25" (D) x 3.27" (H)		
	Weight	2.6kg	2.6kg	2.5kg
	Construction	SECC		
	Chassis Color	Black		
	Mounting Type	Wall mount & Desktop		
Environmental	Operating Temperature	0°C~45°C (32°F~113°F)		
	Storage Temperature	-20°C~80°C (-4°F~176°F)		
	Humidity	5% ~ 90% @45C (Non-condensing)		
	Vibration	Non-Operating : 1.0 grms / 5~500Hz / random Operating : 0.25 grms / 5~500Hz / random		
	Certification	CE / LVD / FCC Class B (Pre-scan only)		

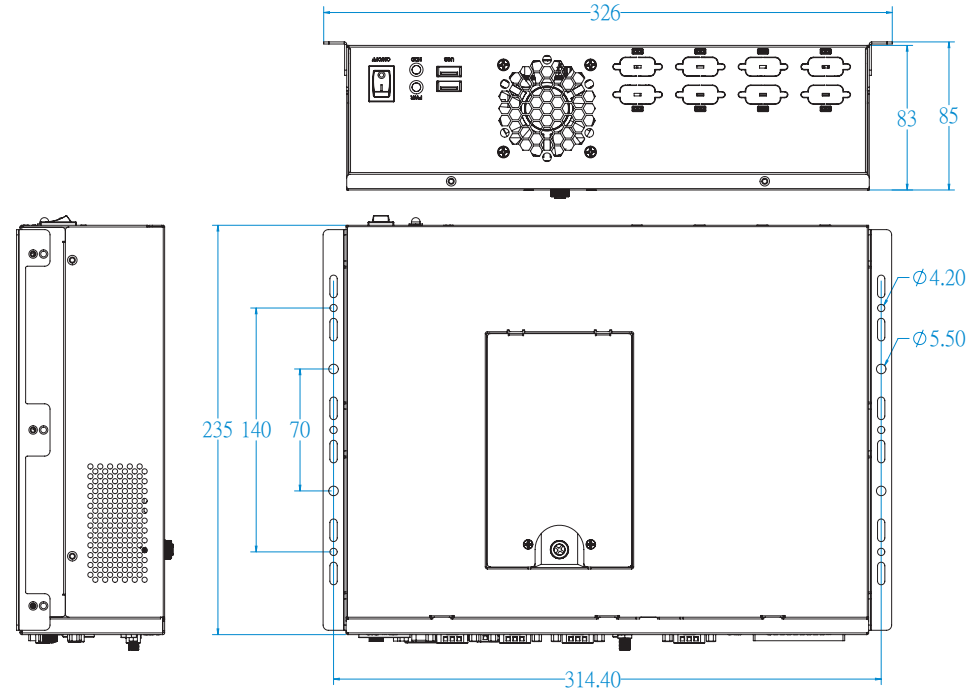
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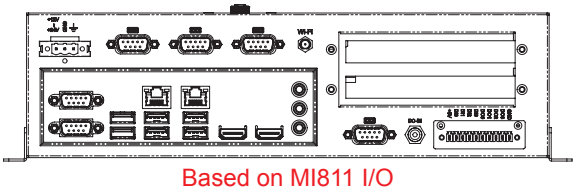
CMI222 System Family

Mini-ITX Standard System

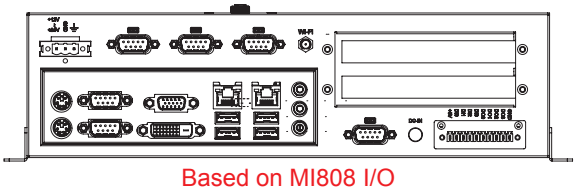
Expandable System with IBASE Mini-ITX Motherboard

Dimensions and Drawing

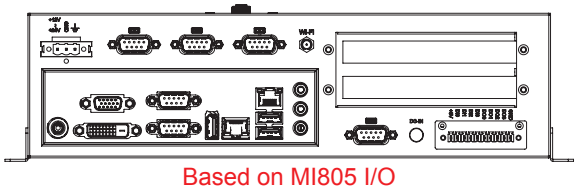




Based on MI811 I/O



Based on MI808 I/O



Based on MI805 I/O

Ordering Information

CMI222-805M	Chassis with MI805F-D + IP246 riser card, w/o HDD, memory, w/ 84W PSU, 2.5" HDD holder, 1x PCI-E (x1) + 1x PCI expansion slot (RoHS2)
CMI222-808M-371	Chassis with MI808F-371 + IP246 riser card, w/o HDD, memory, w/ 84W PSU, 2.5" HDD holder, 1x PCI-E (x1) + 1x PCI expansion slot (RoHS2)
CMI222-808M-301	Chassis with MI808F-301 + IP246 riser card, w/o HDD, memory, w/ 84W PSU, 2.5" HDD holder, 1x PCI-E (x1) + 1x PCI expansion slot (RoHS2)
CMI222-811M-420	Chassis with MI811F-420D + IP246 riser card, w/o HDD, memory, 84W PSU, w/ 2.5" HDD holder, 1x PCI-E (x1) + 1x PCI expansion slot (RoHS2)
CMI222-811M-335	Chassis with MI811F-335D + IP246 riser card, w/o HDD, memory, 84W PSU, w/ 2.5" HDD holder, 1x PCI-E (x1) + 1x PCI expansion slot (RoHS2)

CMI300-988

Mini-ITX Standard System
Slim System with IBASE MI988F Mini-ITX Motherboard



Rear I/O

Features

- AMD Ryzen™ Embedded V1807B on board
- 2x DDR4 SO-DIMM, Max. 32GB
- Supports HDMI & DisplayPort
- 2x Gigabit Ethernet, 4x USB 3.1, 4x COM
- Wall mount kit included, optional VESA mount kit
- 1x Mini PCI-E socket, 1x M.2 (M-key)
- Dimensions: 200(W) x 200(D) x 62(H)mm

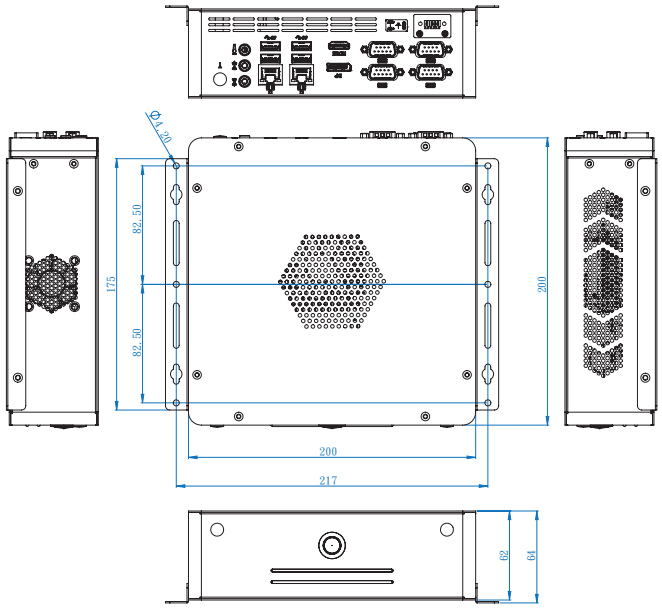
Specifications

System Mainboard	MI988F
APU Type	AMD Ryzen™ Embedded V1000 Series (V1807B)
System Speed	Up to 3.8GHz
Memory	2x 4GB DDR4 SO-DIMM, Max. 32GB
Construction	Aluminum & steel
Chassis Color	Black
Front Panel External I/O	2x Antenna hole reserved Power button
Rear Panel External I/O	2x RS232/422/485 for COM#1~#2 2x RS232 for COM#3~#4 4x USB 3.1 ports 2x RJ-45 Gigabit Ethernet port 1x HDMI+DisplayPort 1x Audio port for [Line-in / Line-out / Mic-in] 1x Antenna hole reserved
Expansion Slots	1x Mini PCI-E socket, 1x M.2 (M Key:2280)
Storage	1x 2.5" SSD
Mounting	Desktop or wall mount bracket Optional VESA mount kit
Dimensions	200mm(W) x 200mm(D) x 62mm(H) 7.87" (W) x 7.87" (D) x 2.44" (H)
Weight	1.8kg
Operating Temperature	0°C~45°C (32°F~113°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	5%~90%@45°C (non-condensing)
Vibration	Operating : 0.25Grms / 5~500Hz Non-operating : 1Grms / 5~500Hz
Shock	Operating : 20G / 11ms Non-operating : 40G / 11ms
Certification	CE/FCC Class A

Ordering Information

CMI300-988-1807	Embedded System with MI988F-1807 (AMD V1807B 3.35/3.8GHz on board), w/ 128GB 2.5" SSD, 1x 4GB DDR4 memory, 84W power adaptor (RoHS2) Compatible with IEC62368-1/EN62368-1
CMI300-988-1605	Embedded System with MI988F-1605 (AMD V1605B 2.0/3.6GHz on board), w/ 128GB 2.5" SSD, 1x 4GB DDR4 memory, 84W power adaptor (RoHS2) Compatible with IEC62368-1/EN62368-1

Dimensions and Drawing



Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

CMI300-988

Mini-ITX Standard System
Slim system with IBASE MI988F Mini-ITX Motherboard

Comparison of CMI Series System Width

7.87-inch (200mm)	11.81-inch (300mm)	11.81-inch (300mm)	13.58-inch (345mm)	13.58-inch (345mm)
				
CMI300-988	CMI211-991	CMI222-805	CMI203-991	CMI202-991

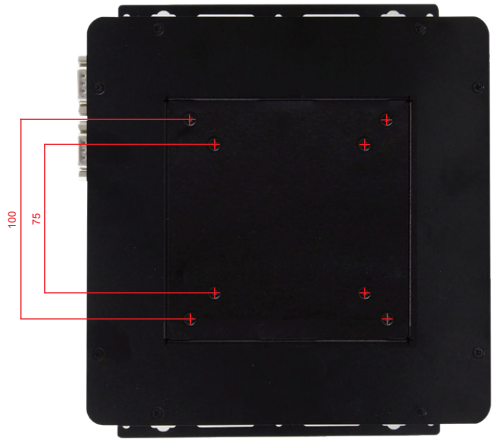
Comparison of CMI Series System Depth

7.87-inch (200mm)	8.07-inch (205mm)	8.86-inch (225mm)	9.25-inch (235mm)	9.45-inch (240mm)
				
CMI300-988	CMI211-991	CMI203-991	CMI222-805	CMI202-991

Wall Mounting



Optional VESA Mount Kit



Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

ASB200-908

SBC Fanless System
Slim system with IBASE IB908 3.5" Disk-Size SBC



Rear I/O

Features

- Fanless system with IBASE IB908 3.5" Disk-Size SBC
- Onboard 4th Gen Intel® Core™ i7 U-series Processor
- 2x DDR3L-1600 SO-DIMM, Max. 16GB
- iSMART- for auto-scheduler and power resume
- Supports 1x Mini PCI-E (full-size)
- Supports 1x 2.5" SATA HDD
- 12V~24V DC wide-range power input
- Wall mount kit included

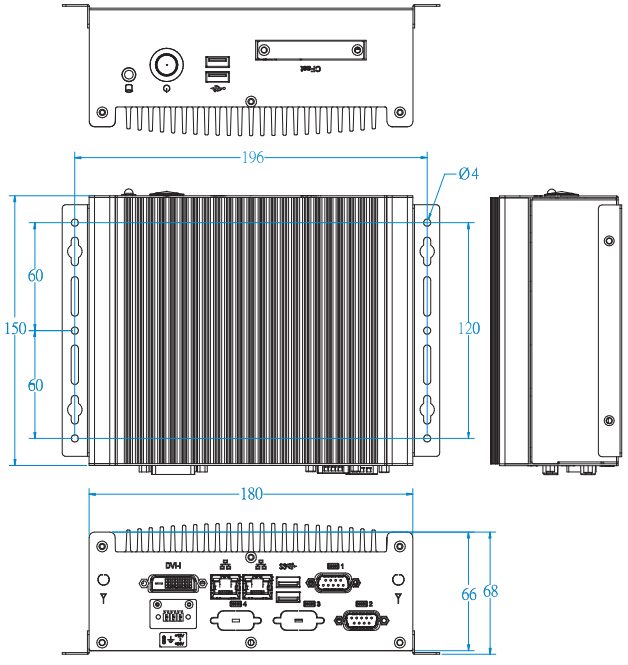
Specifications

System Mainboard	IB908AF-4650 / IB908AF-4300
CPU Type	4th Gen Intel® Core™ i7 4650U / i5 4300U Processor
System Speed	1.7GHz / 1.9GHz
Memory	2x 2GB DDR3L-1600 SO-DIMM Memory, Max.16GB
Construction	Aluminum & steel
Chassis Color	Black
Front Panel External I/O	1x Power button 2x USB 2.0 1x CFast socket 1x HDD LED
Rear Panel External I/O	4x COM (1x RS-232/422/485 + 3x RS-232) 2x USB 3.0 ports 1x DVI-I 2x RJ-45 GbE connector 1x 12V~24V DC-in (terminal block type)
Storage	1x 2.5" HDD or SSD
Mounting	Desktop or wall mount (wall mount kit included) Optional VESA mount kit
Dimensions	180mm(W) x 150mm(D) x 66mm(H) 7.09" (W) x 5.91" (D) x 2.6" (H)
Weight	1.8kg
Operating Temperature	0°C~45°C (32°F~113°F) (With HDD) -10°C~60°C (14°F~140°F) (With SSD)
Storage Temperature	-20°C ~ 80°C (-4°F~176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	Operating : 0.25Grms / 5~500Hz Non-operating : 1Grms / 5~500Hz
Shock	Operating : 20G / 11ms Non-operating : 40G / 11ms
Certification	CE / LVD / FCC Class B

Ordering Information

ASB200-908-4650	Fanless chassis with IB908AF-4650, Intel® i7-4650U 1.7GHz CPU, 2x COM, 2x 2GB DDR3L memory, 2.5" 320GB SATA HDD (w/o 60W power adaptor and VESA mount bracket)
ASB200-908-4COM	Fanless chassis with IB908AF-4300, Intel® i5-4300U 1.9GHz CPU, 4x COM (IBD182 COM Mini PCI-E card), 2x 2GB DDR3L memory, 2.5" 320GB SATA HDD (w/o 60W power adaptor and VESA mount bracket)
ASB200-908	Fanless chassis with IB908AF-4300, Intel® i5-4300U 1.9GHz CPU, 2x COM, 2x 2GB DDR3L memory, 2.5" 320GB SATA HDD (w/o 60W power adaptor and VESA mount bracket)
60W power adaptor (optional)	60W (12V@5A) power adaptor (bare wire type) Compatible with IEC62368-1/EN62368-1

Dimensions and Drawing



Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

ASB200-909

SBC Fanless System
Slim System with IBASE IB909 3.5" Disk-Size SBC



Rear I/O

Features

- Fanless system with IBASE IB909 3.5" Disk-Size SBC
- Onboard 5th Gen Intel® Core™ i7 U-series Processor
- iSMART- for auto-scheduler and power resume
- Supports 1x Mini PCI-E (full-size)
- Supports 1x 2.5" SATA HDD
- 12V~24V DC wide-range power input
- Wall mount kit included

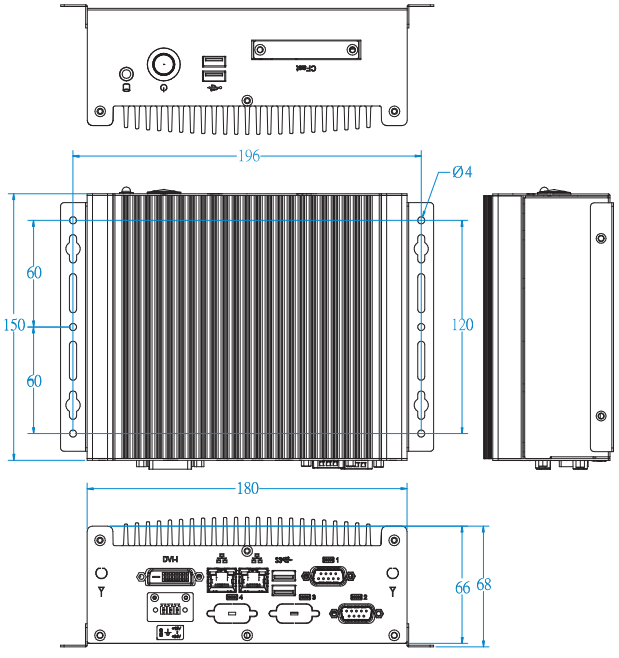
Specifications

System Mainboard	IB909AF-5650 / IB909AF-5350
CPU Type	5th Gen Intel® Core™ i7 5650U / i5 5350U Processor
System Speed	2.2GHz / 1.8GHz
Memory	2x 2GB DDR3L-1600 SO-DIMM memory, Max.16GB
Construction	Aluminum & steel
Chassis Color	Black
Front Panel External I/O	1x Power button 2x USB 2.0 1x CFast socket 1x HDD LED
Rear Panel External I/O	4x COM (1x RS-232/422/485 + 3x RS-232) 2x USB 3.0 ports 1x DVI-I 2x RJ-45 GbE connector 1x 12V~24V DC-in (terminal block type)
Storage	1x 2.5" HDD or SSD
Mounting	Desktop or wall mount (wall mount kit included) Optional VESA mount kit
Dimensions	180mm(W) x 150mm(D) x 66mm(H) 7.09" (W) x 5.91" (D) x 2.6" (H)
Weight	1.8kg
Operating Temperature	0°C~45°C (32°F~113°F) (With HDD) -10°C~60°C (14°F~140°F) (With SSD)
Storage Temperature	-20°C ~ 80°C (-4°F~176°F)
Relative Humidity	5~90% @45°C, (non-condensing)
Vibration	Operating: 0.25Grms / 5~500Hz Non-operating: 1Grms / 5~500Hz
Shock	Operating: 20G / 11ms Non-operating: 40G / 11ms
Certification	CE / LVD / FCC Class B / CCC

Ordering Information

ASB200-909-5650	Fanless chassis with IB909AF-5650, Intel® i7-5650U 2.2GHz CPU, 2x COM, 2x 2GB DDR3L memory, 2.5" 320GB SATA HDD (w/o 60W power adaptor and VESA mount bracket)
ASB200-909-4COM	Fanless chassis with IB909AF5350, Intel® i5-5350U 1.8GHz CPU, 4x COM (IBD-182 COM Mini PCI-E card), 2x 2GB DDR3L memory, 2.5" 320GB SATA HDD (w/o 60W power adaptor and VESA mount bracket)
ASB200-909	Fanless chassis with IB909AF5350, Intel® i5-5350U 1.8GHz CPU, 2x COM, 2x 2GB DDR3L memory, 2.5" 320GB SATA HDD (w/o 60W power adaptor and VESA mount bracket)
60W power adaptor (optional)	60W (12V@5A) power adaptor (bare wire type) Compatible with IEC62368-1/EN62368-1

Dimensions and Drawing



ASB200-915

SBC Fanless System
Slim system with IBASE IB915 3.5" Disk-Size SBC



Rear I/O

Features

- Fanless system with IBASE IB915 3.5" Disk-Size SBC
- Onboard 6th Gen Intel® Core™ U-series Processor
- iSMART- for auto-scheduler and power resume
- Supports 1x Mini PCI-E (full-size)
- Supports 1x 2.5" SATA HDD
- 1x USB 3.1 port type-c, 4x USB 3.0 ports
- 12V~24V DC wide-range power input
- Wall mount kit included

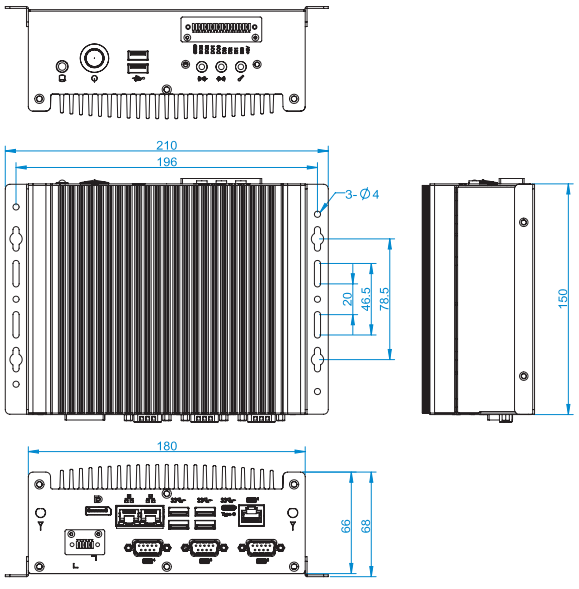
Specifications

System Mainboard	IB915AF-6600 / IB915AF-6300 / IB915AF-6100
CPU Type	Intel® Core™ i7 6600U Processor Intel® Core™ i5 6300U Processor Intel® Core™ i3 6100U Processor
System Speed	2.6GHz / 2.4GHz / 2.3GHz
Memory	2x 2GB DDR3L-1600 SO-DIMM Memory, Max.16GB
Construction	Aluminum & Steel
Chassis Color	Black
Front Panel External I/O	1x Power button 2x USB 2.0 1x Audio Jack for Line-out / Line-in / MIC-in 1x HDD LED 1x Digital I/O (4-in / 4-out)
Rear Panel External I/O	1x COM thru RJ50 connector (RS-232/422/485) 3x COM (RS232) 4x USB 3.0 ports 1x USB 3.1 port type-C 1x DisplayPort 2x RJ-45 GbE connector 1x 12V~24V DC-in (terminal block type)
Storage	1x 2.5" HDD or SSD
Mounting	Desktop or wall mount (wall mount kit included) Optional VESA mount kit
Dimensions	180mm(W) x 150mm(D) x 66mm(H) 7.09" (W) x 5.91" (D) x 2.6" (H)
Weight	1.8kg
Operating Temperature	0°C~40°C (32°F~104°F) (With HDD) -10°C~50°C (14°F~122°F) (With SSD)
Storage Temperature	-20°C ~ 80°C (-4°F~176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	Operating : 0.25Grms / 5~500Hz Non-operating : 1Grms / 5~500Hz
Shock	Operating : 20G / 11ms Non-operating : 40G / 11ms
Certification	CE / LVD / FCC Class B

Ordering Information

ASB200-915-i7	Fanless chassis with IB915AF-6600, Intel® i7-6600U 2.6GHz CPU, 4x COM, 2x 2GB DDR3L memory, 1x 2.5" 64GB MLC SSD, supports iAMT11.0 (w/o 84W power adaptor and VESA mount bracket)
ASB200-915-i5	Fanless chassis with IB915AF-6300, Intel® i5-6300U 2.4GHz CPU, 4x COM, 2x 2GB DDR3L memory, 1x 2.5" 64GB MLC SSD, supports iAMT11.0 (w/o 84W power adaptor and VESA mount bracket)
ASB200-915-i3	Fanless chassis with IB915F-6100, Intel® i3-6100U 2.3GHz CPU, 4x COM, 2x 2GB DDR3L memory, 1x 2.5" 64GB MLC SSD (w/o 84W power adaptor and VESA mount bracket)
ASB200-915-i7-DC	Fanless chassis with IB915AF-6600, Intel® i7-6600U 2.6GHz CPU, 4x COM, 2x 2GB DDR3L memory, 1x 2.5" 64GB MLC SSD, 1x 84W power adaptor, supports iAMT11.0 (w/o VESA mount bracket)
ASB200-915-i5-DC	Fanless chassis with IB915AF-6300, Intel® i5-6300U 2.4GHz CPU, 4x COM, 2x 2GB DDR3L memory, 1x 2.5" 64GB MLC SSD, 1x 84W power adaptor, supports iAMT11.0 (w/o VESA mount bracket)
ASB200-915-i3-DC	Fanless chassis with IB915F-6100, Intel® i3-6100U 2.3GHz CPU, 4x COM, 2x 2GB DDR3L memory, 1x 2.5" 64GB MLC SSD, 1x 84W power adaptor (w/o VESA mount bracket)
90W power adaptor (optional)	90W (24V@3.75) power adaptor, DC-jack or bare wire type, Compatible with IEC62368-1/EN62368-1

Dimensions and Drawing



Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

ASB200-916

SBC Fanless System
Slim System with IBASE IB916 3.5" Disk-Size SBC



Rear I/O

Features

- Fanless system with IBASE IB916 3.5" Disk-Size SBC
- Onboard 6th Gen Intel® Core™ U-series Processor
- iSMART- for auto-scheduler and power resume
- Supports 1x Mini PCI-E (full-size)
- Supports 1x 2.5" SATA HDD
- 4x USB 3.0 DP/HDMI
- 12V~24V DC wide-range power input
- Wall mount kit included

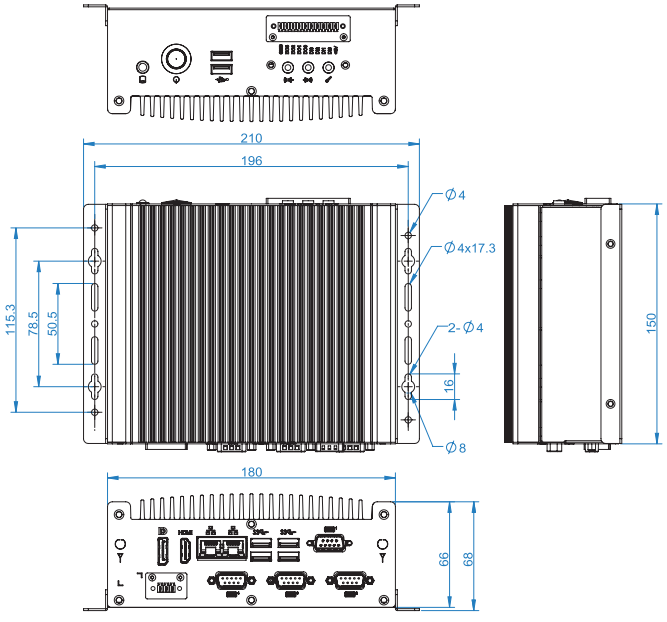
Specifications

System Mainboard	IB916AF-7600 / IB916AF-7300 / IB916F-7100
CPU Type	Intel® Core™ i7 7600U Processor Intel® Core™ i5 7300U Processor Intel® Core™ i3 7100U Processor
System Speed	Up to 2.8GHz
Memory	2x 4GB DDR4-2133 SO-DIMM, Max.32GB
Construction	Aluminum & steel
Chassis Color	Black
Front Panel External I/O	1x Power button 2x USB 2.0 1x Audio Jack for Line-out / Line-in / MIC-in 1x HDD LED 1x Digital I/O (4-in / 4-out)
Rear Panel External I/O	4x USB 3.0 port 1x HDMI display, 1x DisplayPort 1x RS232/422/485 port for COM#1 3x RS232 ports for COM#2/COM#3/ COM#4 2x RJ45 Gigabit Ethernet port 1x 3-pin DC-in terminal block for 12V-24V
Expansion Slots	1x Full-size Mini PCI-E socket (USB 2.0 + SATA)
Storage	1x 2.5" HDD or SSD
Mounting	Desktop or wall mount (wall mount kit included) Optional VESA mount kit
Dimensions	180mm(W) x 150mm(D) x 66mm(H) 7.08" (W) x 5.9" (D) x 2.6" (H)
Weight	1.8kg
Operating Temperature	0°C~45°C (32°F~113°F) (With HDD) -20°C~60°C (-4°F~140°F) (With SSD)
Storage Temperature	-20°C to 80°C (-4°F to 176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	Operating : 0.25Grms / 5~500Hz Non-operating : 1Grms / 5~500Hz
Shock	Operating : 20G / 11ms Non-operating : 40G / 11ms
Certification	CE / LVD / FCC Class B

Ordering Information

ASB200-916-i7	Fanless chassis with IB916AF-7600, Intel® i7-7600U 2.8GHz CPU, 4x COM, 2x 4GB DDR4 memory, 1x 2.5" 64GB MLC SSD, (w/o 84W power adaptor and VESA mount bracket)
ASB200-916-i5	Fanless chassis with IB916AF-7300, Intel® i5-7300U 2.6GHz CPU, 4x COM, 2x 4GB DDR4 memory, 1x 2.5" 64GB MLC SSD, (w/o 84W power adaptor and VESA mount bracket)
ASB200-916-i3	Fanless chassis with IB916F-7100, Intel® i3-7100U 2.4GHz CPU, 4x COM, 2x 4GB DDR4 memory, 1x 2.5" 64GB MLC SSD, (w/o 84W power adaptor and VESA mount bracket)
90W power adaptor (optional)	90W (24V@3.75) power adaptor, DC-jack or bare wire type, Compatible with IEC62368-1/EN62368-1
Optional Accessories	WiFi/BT antenna kit

Dimensions and Drawing



ASB200-918

SBC Fanless System
Slim system with IBASE IB918 3.5" Disk-Size SBC



Rear I/O

Features

- Fanless system with IBASE IB918 3.5" Disk-Size SBC
- AMD Ryzen™ Embedded V1000 /R1000 on board
- 2x DDR4 SO-DIMM, Max. 32GB, supports ECC
- Supports 2x M.2 sockets (E-Key / M-Key, NVMe)
- 2x HDMI(2.0a), 2x Intel® Gigabit LAN
- 4 x COM ports, External GPIO
- 4 x USB3.1, 1x USB2.0
- 12V~24V DC-in Power Input
- Operating temperature 0°C~45°C (32°F~113°F)

Specifications

System Mainboard	IB918F-1605 /IB918F-1202 /IB918F-1606G / IB918F-1505G
APU Type	AMD Embedded Ryzen™ Series SoC V1605B/ V1202B/ R1606G/ R1505G
Memory	2x 8GB DDR4-2666 SO-DIMM Max.32GB, supports ECC
System Speed	up to 3.6GHz
Construction	Aluminum & steel
Chassis Color	Black
Front Panel External I/O	1x Audio Jack for Line-out/ Line-in/ MIC-in 1x Power LED/ 1x HDD LED/ 1x RST button/ 1x On/Off button 1x USB 3.0/2.0 by V1605B/ V1202B/ R1606G/ R1505G 3x DB9 for COM#2~4 (RS232)
Rear Panel External I/O	4 x USB 3.1 2x HDMI(2.0a) 1x DB9 for COM#1 (RS232/422/485) 2x LAN 1x Digital I/O (4-in/4-out) 1x 3-pin DC-in terminal block for 12V~24V 2x Antenna holes
Internal Expansion	2x M.2 (E-Key / M-Key)
Storage	1x 2.5" HDD or SSD
Mounting	Desktop or wall mount (wall mount kit included)
Dimensions	240mm (W) x 162mm (D) x 42mm (H) 9.44" (W) x 6.37" (D) x 1.65" (H)
Weight	1.7kg
Operating Temperature	0°C~45°C (32°F~113°F)
Storage Temperature	-20°C ~80°C (-4°F~176°F)
Relative Humidity	5%~90%@45°C (non-condensing)
Vibration	Operating: 3Grms / 5~500Hz
Certification	CE/LVD/FCC Class B

Ordering Information

ASB200-918-1605	Fanless chassis with IB918F-1605, AMD Ryzen™ Embedded V1605B QC APU 2.0GHz, 4x COM, 2x 8GB DDR4 memory, 1x 2.5" SATAIII 64GB TLC SSD (W/O 90W power adaptor)
ASB200-918-1202	Fanless chassis with IB918F-1202, AMD Ryzen™ Embedded V1202B DC APU 2.3GHz, 4x COM, 2x 8GB DDR4 memory, 1x 2.5" SATAIII 64GB TLC SSD (W/O 90W power adaptor)
ASB200-918-1606G	Fanless chassis with IB918F-1606G, AMD Ryzen™ Embedded R1606G DC APU 2.6GHz, 4x COM, 2x 8GB DDR4 memory, 1x 2.5" SATAIII 64GB TLC SSD (W/O 90W power adaptor)
ASB200-918-1505G	Fanless chassis with IB918F-1505G, AMD Ryzen™ Embedded R1505G DC APU 2.4GHz, 4x COM, 2x 8GB DDR4 memory, 1x 2.5" SATAIII 64GB TLC SSD (W/O 90W power adaptor)
90W power adaptor (optional)	90W (24V@3.75) power adaptor, DC-jack or bare wire type, Compatible with IEC62368-1/EN62368-1

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

ASB200-918

SBC Fanless System
Slim System with IBASE IB918 3.5" Disk-Size SBC

Comparison of ASB Series System Width

7.08-inch (180mm)



ASB200-916

7.08-inch (180mm)



ASB200-919

9.44-inch (240mm)



ASB200-918

Comparison of ASB Series System Height

1.65-inch (42mm)



ASB200-918

1.83-inch (46.5mm)



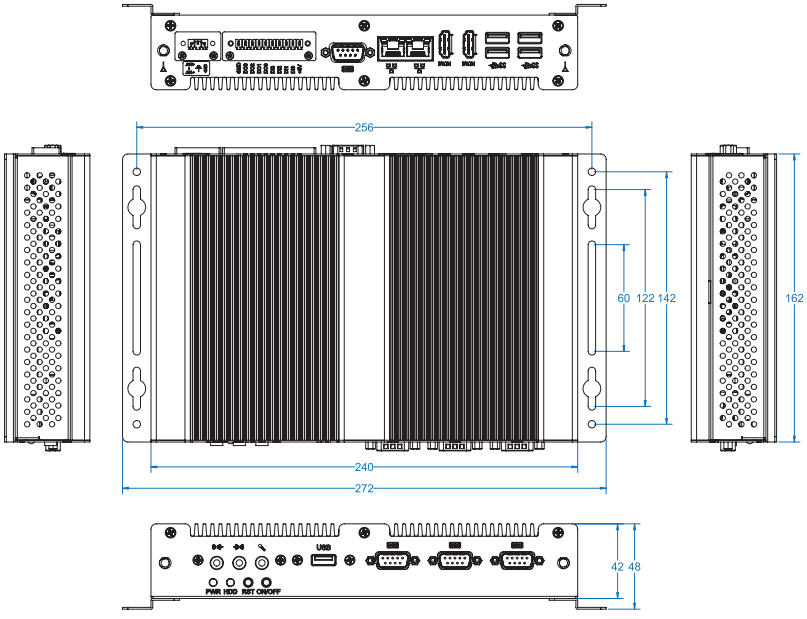
ASB200-919

2.6-inch (66mm)



ASB200-916

Dimensions and Drawing



ASB200-919

SBC Fanless System
Slim system with IBASE IB919 3.5" Disk-Size SBC



Rear I/O

Preliminary

Features

- Fanless system with IBASE IB919 3.5" Disk-Size SBC
- Onboard 8th Gen Intel® Core™ U-Series Processor
- 2x DDR4 SO-DIMM, Max.=32GB
- Supports 2x M.2 sockets (E-Key, CNVi / M-Key, NVMe)
- Dimensions 180mm(W) x 150mm(D) x 46.5mm(H)
- 2x DP (1 by Type-C), TPM(2.0)
- 1x COM ports, External GPIO
- 4x USB3.1, 2x Intel® Gigabit LAN
- 12V~24V DC-in Power Input
- Operating temperature 0°C~45°C (32°F~113°F)
- Optional VESA Mount bracket

Specifications

System Mainboard	IB919AF-8665/ IB919AF-8365/ IB919EF-8145/ IB919EF-4305
CPU Type	Intel® Core™ i7 8665UE Processor Intel® Core™ i5 8365UE Processor Intel® Core™ i3 8145UE Processor
Memory	2x 8GB DDR4-2666 SO-DIMM, Max.32GB
System Speed	up to 4.4GHz
Construction	Aluminum & steel
Chassis Color	Black
Front Panel External I/O	4x USB 3.1 2x DP (1 by Type-C, 1 by USB 3.1) 1x DB9 for COM#1 (RS232/422/485) 2x LAN
Rear Panel External I/O	1x Power button 1x Digital I/O (4-in/4-out) 2x Antenna holes 1x HDD LED 1x 3-pin DC-in terminal block for 12V~24V
Internal Expansion	2x M.2 (E-Key, M-Key)
Mounting	Desktop or wall mount (wall mount kit included) Optional VESA mount kit
Dimensions	180mm(W) x 150mm(D) x 46.5mm(H) 7.08" (W) x 5.9" (D) x 1.83" (H)
Weight	1.5kg
Operating Temperature	0°C~45°C (32°F~113°F)
Storage Temperature	-20°C ~80°C (-4°F~176°F)
Relative Humidity	5%~90%@45°C (non-condensing)
Vibration	Operating: 3Grms / 5~500Hz
Certification	CE/LVD/FCC Class B

Ordering Information

ASB200-919-i7	Fanless chassis with IB919AF-8665, Intel® i7-8665UE 1.7GHz CPU, 1x COM, 2x 8GB DDR4 memory, 1x M.2 2280 SATAIII 64GB MLC SSD (W/O 90W power adaptor and VESA mount bracket)
ASB200-919-i5	Fanless chassis with IB919AF-8365, Intel® i5-8365UE 1.6GHz CPU, 1x COM, 2x 8GB DDR4 memory, 1x M.2 2280 SATAIII 64GB MLC SSD (W/O 90W power adaptor and VESA mount bracket)
ASB200-919-i3	Fanless chassis with IB919EF-8145, Intel® i3-8145UE 2.2GHz CPU, 1x COM, 2x 8GB DDR4 memory, 1x M.2 2280 SATAIII 64GB MLC SSD (W/O 90W power adaptor and VESA mount bracket)
ASB200-919-CEL	Fanless chassis with IB919EF-4305, Intel® Celeron 4305UE 2.0GHz CPU, 1x COM, 2x 8GB DDR4 memory, 1x M.2 2280 SATAIII 64GB MLC SSD (W/O 90W power adaptor and VESA mount bracket)
90W power adaptor (optional)	90W (24V@3.75) power adaptor, DC-jack or bare wire typ Compatible with IEC62368-1/EN62368-1
Optional Accessories	Wifi antenna kit [PN: SC2ASB2----0A1100R]

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

ASB200-919

SBC Fanless System
Slim System with IBASE IB918 3.5" Disk-Size SBC

Comparison of ASB Series System Width

7.08-inch (180mm)



ASB200-916

7.08-inch (180mm)



ASB200-919

9.44-inch (240mm)



ASB200-918

Comparison of ASB Series System Height

1.65-inch (42mm)



ASB200-918

1.83-inch (46.5mm)



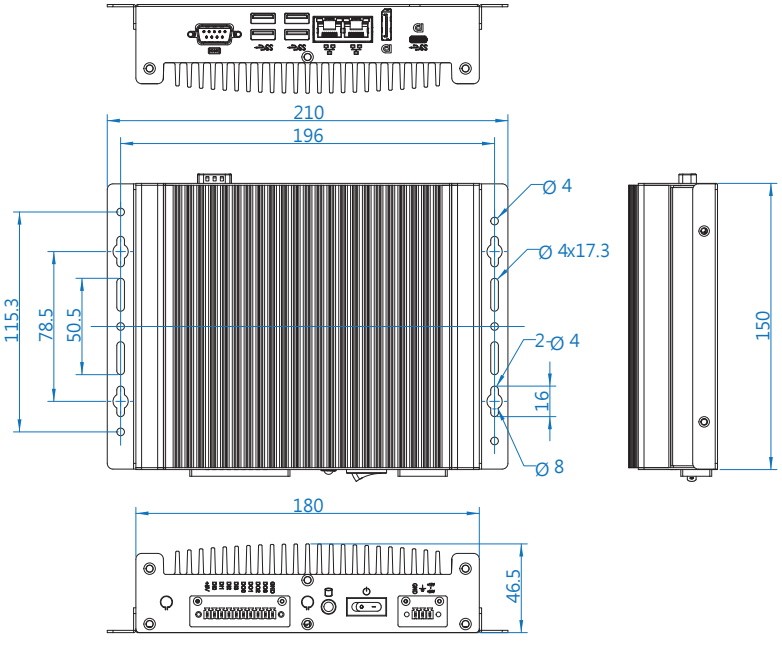
ASB200-919

2.6-inch (66mm)



ASB200-916

Dimensions and Drawing



CSB200-818

SBC Fanless System
Slim System with IBASE IB818 3.5" Disk-Size SBC



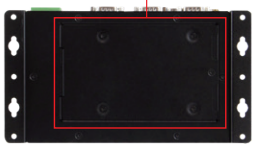


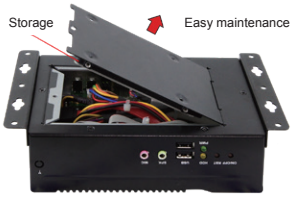


Rear I/O

Features

- Fanless system with IBASE IB818 3.5" Disk-Size SBC
- Supports Intel® Atom™ Processors E3940/ E3930 & Pentium® N4200/ Celeron® N3350 Series
- Wide-range operating temperature from -30°C to 65°C
- 12V~24V DC wide-range power input
- Wall mount kit included





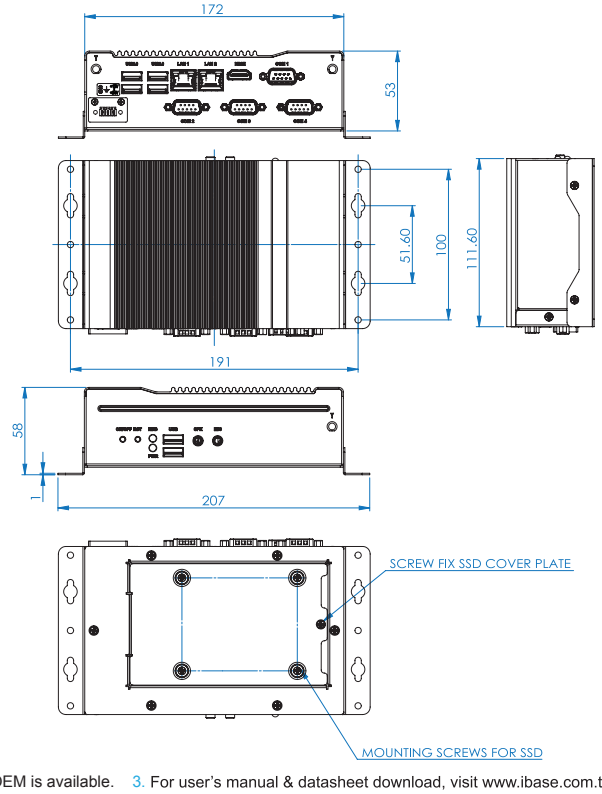
Specifications

System Mainboard	IB818 (F-1 Stepping)
CPU Type	Intel® Atom™ Processors E3940/ E3930 & Pentium® N4200/ Celeron® N3350 Series
System Speed	Up to 2.5GHz
Memory	1x 4GB DDR3L-1866 SO-DIMM, Max. 8GB
Construction	Aluminum & steel
Chassis Color	Black
Front Panel External I/O	1x Power LED 1x HDD LED 1x Power button 1x Reset button 2x USB 2.0 ports 1x Line-out, 1x Mic-in
Rear Panel External I/O	4x USB 3.0 port 1x HDMI 1x RS232/422/485 port for COM#1 3x RS232 ports for COM#2/COM#3/ COM#4 2x RJ45 Gigabit Ethernet port 1x 3-pin DC-in terminal block for 12V-24V
Expansion Slots	1x Full-size Mini PCI-E socket (USB 2.0 + SATA) 1x Half-size Mini PCI-E socket (USB 2.0)
Storage	1x 2.5" HDD or SSD (removable)
Mounting	Desktop or wall mount (wall mount kit included)
Dimensions	172mm (W) x 111.6mm (D) x 53mm (H) 6.77"(W) x 4.39"(D) x 2.09"(H)
Weight	1.1kg
Operating Temperature	-30°C~65°C (22°F~149°F) For E3940 (With SSD) *With air flow -10°C ~45°C(14°C~113°C) For N-Series CPU (With HDD) *With air flow
Storage Temperature	-40°C ~ 85°C (-40°F~185°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	Operatiing: (with IEC 60068-2-64) 1.0 grms / 5~500Hz / random operation Non-Operating:(with IEC 60068-2-64) 2.0 grms / 5~500Hz / random operation
Shock	Operating : 20G/11 ms Duration (with MIL-STD-810G) Non-operating: 30G/11 ms Duration (with MIL-STD-810G)
Certification	CE / LVD / FCC Class B

Ordering Information

CSB200-818-I40	Fanless system w/ Intel® Atom™ E3940, 4x COM, 1x 4GB DDR3L industrial-grade memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor
CSB200-818-I30	Fanless system w/ Intel® Atom™ E3930, 4x COM, 1x 4GB DDR3L industrial-grade memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor
CSB200-818-420	Fanless system w/ Intel® Atom™ N4200, 4x COM, 1x 4GB DDR3L memory, 1x 2.5" 500 GB SATA HDD, w/o power adaptor
CSB200-818-335	Fanless system w/ Intel® Atom™ N3350, 4x COM, 1x 4GB DDR3L memory, 1x 2.5" 500GB SATA HDD, w/o power adaptor
60W power adaptor (optional)	60W (12V@5A) power adaptor, DC-jack or bare wire type Compatible with IEC62368-1/EN62368-1

Dimensions and Drawing



Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

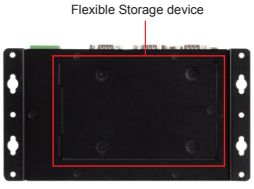
CSB200-822

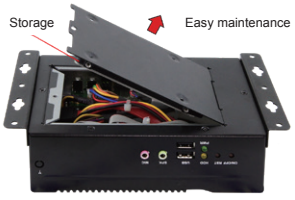
SBC Fanless System
Slim System with IBASE IB822 3.5'' Disk-Size SBC



Features

- Fanless system with IBASE IB822 3.5" Disk-Size SBC
- Intel® Pentium® Silver Processor J5005 & Celeron® Processor J4005 Series
- DC-Jack type or Terminal block type (by option)
- Supports 1x 2.5" SATA HDD or SSD (removable)
- Wall mount kit included





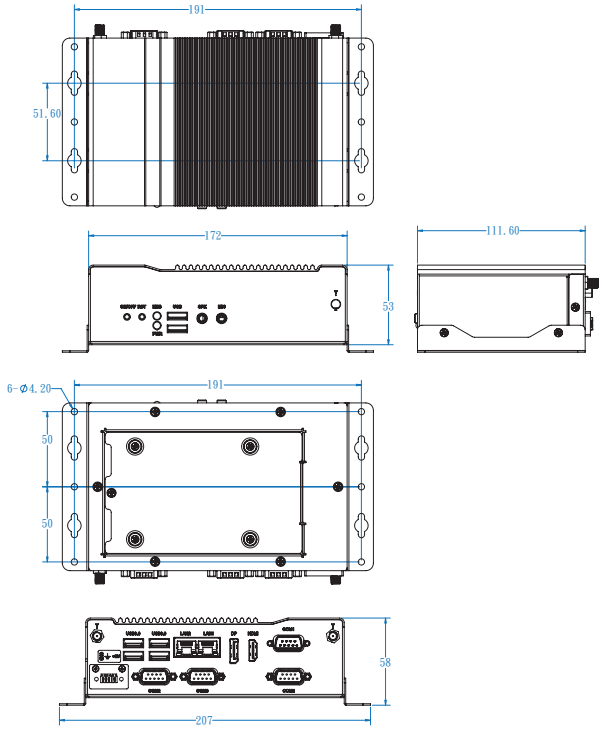
Specifications

System Mainboard	IB822
CPU Type	Intel® Pentium® Silver Processor J5005/ Celeron® Processor J4005 Series
System Speed	Up to 2.8GHz
Memory	1x 4GB DDR4 SO-DIMM, Max. 8GB
Construction	Aluminum & Steel
Chassis Color	Black
Front Panel External I/O	1x Power LED 1x HDD LED 1x Power button 1x Reset button 2x USB2.0 ports 1x Line-out 1x Mic-in 1x Antenna reserved
Rear Panel External I/O	4x USB 3.0 port 1x RS232/422/485 for COM#1 3x RS232 for COM#2~4 1x HDMI 1x DP 2x RJ-45 Gigabit Ethernet port 2x Antenna reserved 1x DC jack with lock or Terminal block [12V DC-IN]
Expansion Slots	M.2 socket x1 (Mechanical key B, type 2242) M.2 socket x1 (Mechanical key E, type 2230)
Storage	1x 2.5" SATA HDD or SSD (removable)
Mounting	Desktop or wall mount (Wall mount kit included)
Dimensions	172mm(W) x 111.6mm(D) x 53mm(H) 6.77" (W) x 4.37" (D) x 2.08" (H)
Weight	1.1kgs
Operating Temperature	0°C~45°C (14°F~113°F) (HDD) *With air flow 0°C~50°C (32°F~122°F) (SSD) *With air flow
Storage Temperature	-40°C~85°C (-40°F~185°F)
Relative Humidity	5%~90%@45°C (non-condensing)
Vibration	-40°C~85°C (-40°F~185°F) 5%~90%@45°C (non-condensing)
Shock	Operating : 20G / 11ms Non-operating : 40G / 11ms
Certification	CE/ FCC Class B / LVD

Ordering Information

CSB200-822-5005H	Fanless system with IB822-J5005 w/ Intel® Pentium® J5005, 4x COM, 1x 4GB DDR4 memory, 1x 2.5" 500GB HDD, desktop stand & mounting brackets, w/o power adaptor
CSB200-822-4005S	Fanless system with IB818-J4005 w/ Intel® Celeron® J4005, 4x COM, 1x 4GB DDR4 memory, 1x 2.5" 64GB SSD, desktop stand & mounting brackets, w/o power adaptor
60W power adaptor (optional)	60W (12V@5A) power adaptor, DC-jack or bare wire type, Compatible with IEC62368-1/EN62368-1

Dimensions and Drawing



CSB200-897

SBC Fanless System
Slim System with IBASE IB897 3.5" Disk-Size SBC





Rear I/O

Features

- Fanless system with IBASE IB897 3.5" Disk-Size SBC
- Onboard Intel® Atom™ Processor E3845 SoC, 1.91GHz
- iSMART- for auto-scheduler and power resume
- Wide-range operating temperature from -30°C to 60°C
- 12V~24V DC wide-range power input
- Supports 2x Mini PCI-E (1x full-size & 1x half size)
- Supports 1x 2.5" SATA HDD or SSD
- Wall mount kit included

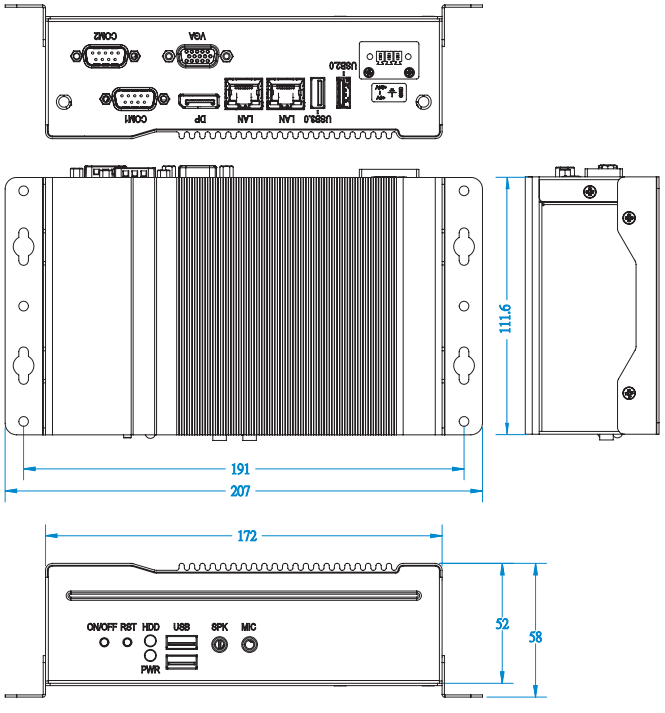
Specifications

System Mainboard	IB897-I45P (D-1 Stepping)
CPU Type	Intel® Atom™ QC Processor E3845
System Speed	1.91GHz
Memory	2x 2GB DDR3L-1333 SO-DIMM, Max. 8GB
Construction	Aluminum & steel
Chassis Color	Black
Front Panel External I/O	1x Power LED 1x HDD LED 1x Power button 1x Reset button 2x USB 2.0 ports 1x Line-out, 1x Mic-in
Rear Panel External I/O	1x USB 2.0 port 1x USB 3.0 port 1x DisplayPort 1x VGA port 2x DB9 for COM1 (RS232/422/485, select from BIOS) / COM2 2x RJ45 GbE connector 1x DC jack with lock or terminal block (12V~24V DC)
Storage	1x 2.5" HDD or SSD
Mounting	Desktop or wall mount (wall mount kit included)
Dimensions	172mm (W) x 111.6mm (D) x 52mm (H) 6.77"(W) x 4.39"(D) x 2.05"(H)
Weight	1.1kg
Operating Temperature	-30°C~60°C (22°F~140°F)
Storage Temperature	-40°C ~ 85°C (-40°F~185°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	Operating: 0.25Grms / 5~500Hz Non-operating: 1Grms / 5~500Hz
Shock	Operating: 20G / 11ms Non-operating: 40G / 11ms
Certification	CE / LVD / FCC Class B / CCC

Ordering Information

CSB200-897	Fanless chassis with IB897-I45P, Intel® Atom™ E3845 SoC (1.91GHz), 2x COM, 2x 2GB DDR3L memory, 2.5" 320GB SATA HDD (w/o 60W power adaptor)
CSB200-897-IT	Fanless chassis with IB897-I45P, Intel® Atom™ E3845 SoC (1.91GHz), 2x COM, 2x 2GB DDR3L memory, 2.5" 64GB industrial-grade SSD (w/o 60W power adaptor)
60W power adaptor (optional)	60W (12V@5A) power adaptor, DC-jack or bare wire type, Compatible with IEC62368-1/EN62368-1

Dimensions and Drawing



iBASE

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

CSB200-898

SBC Fanless System
Slim System with IBASE IB898 3.5" Disk-Size SBC



Rear I/O

Features

- Fanless system with IBASE IB898 3.5" Disk-Size SBC
- Onboard Intel® Atom™ Processor E3825 SoC, 1.33GHz
- iSMART- for auto-scheduler and power resume
- Wide-range operating temperature from -30°C to 65°C
- Supports 3x Mini PCI-E (2x full-size & 1x half-size)
- Supports 1x 2.5" SATA HDD or SSD
- 12V DC power input
- Wall mount kit included

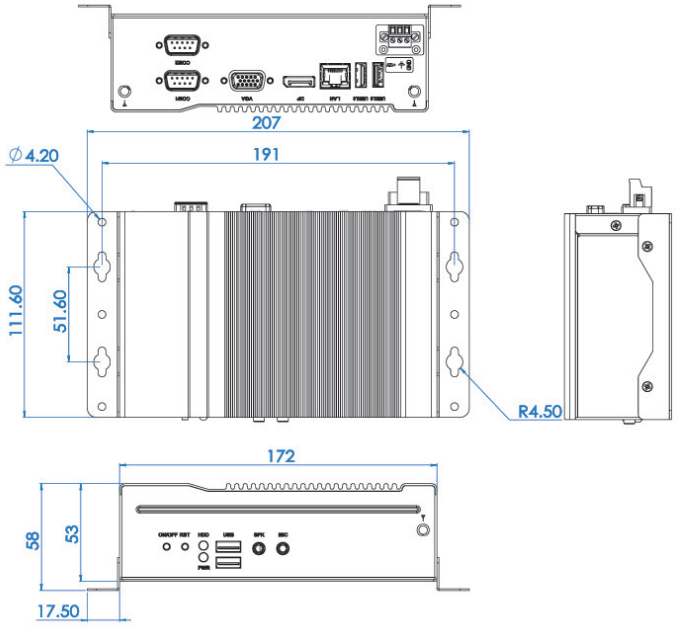
Specifications

System Mainboard	IB898-I25P (D-1 Stepping)
CPU Type	Intel® Atom™ DC Processor E3825
System Speed	1.33GHz
Memory	1x 2GB DDR3L-1333 SO-DIMM, Max. 8GB
Construction	Aluminum & steel
Chassis Color	Black
Front Panel External I/O	1x Power LED 1x HDD LED 1x Power button 1x Reset button 2x USB 2.0 ports 1x Line-out, 1x Mic-in
Rear Panel External I/O	1x USB 2.0 port 1x USB 3.0 port 1x DisplayPort 1x VGA port 2x DB9 for COM1 (RS232/422/485, select from BIOS) / COM2 1x RJ45 GbE connector 1x DC jack with lock or terminal block (12V DC-IN)
Expansion Slots	3x Mini PCI-E (2x full-size & 1x half-size)
Storage	1x 2.5" HDD or SSD
Mounting	Desktop or wall mount (wall mount kit included)
Dimensions	172mm (W) x 111.6mm (D) x 53mm (H) 6.77"(W) x 4.39"(D) x 2.09"(H)
Weight	1.1kg
Operating Temperature	-30°C~65°C (-22°F~149°F)
Storage Temperature	-40°C ~ 85°C (-40°F~185°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	Operating: 0.25Grms / 5~500Hz Non-operating: 1Grms / 5~500Hz
Shock	Operating: 20G / 11ms Non-operating: 40G / 11ms
Certification	CE / LVD / FCC Class B

Ordering Information

CSB200-898	Fanless chassis with IB898-I25P, Intel® Atom™ E3825 SoC (1.33GHz), 2x COM, 1x DDR3L 2GB memory, 1x 2.5" 320GB SATA HDD, desktop stand & mounting brackets, (w/o 60W power adaptor)
CSB200-898-IT	Fanless chassis with IB898-I25P, Intel® Atom™ E3825 SoC (1.33GHz), 2x COM, 1x industrial-grade DDR3L 2GB memory, 1x industrial-grade 64GB MLC 2.5" SSD, desktop stand & mounting brackets, (w/o 60W power adaptor)
60W power adaptor (optional)	60W (12V@5A) power adaptor, DC-jack or bare wire type, Compatible with IEC62368-1/EN62368-1

Dimensions and Drawing



Product Index

AGS100/AGS100T	18-19
AGS102/AGS102T	20-21
AMI210	34-35
AMI210PE	36-37
AMI220	38-39
AMI221	40-41
AMI222	42-43
AMI230	44-45
AMI231	46-47
AMI232	48-49
AMS210	24-25
AMS300	26-27
AMS301	30-31
AMS301-1	28-29
AMS302	32-33
ASB200-908	70
ASB200-909	71
ASB200-915	72
ASB200-916	73
ASB200-918	74-75
ASB200-919	76-77
CMI202-991	54-55
CMI203 System Family	56-57
CMI211 System Family	58-59
CMI212 System Family	60-61
CMI221-981	62
CMI221-991	63
CMI221-995	64
CMI221-996	65
CMI222 System Family	66-67
CMI300-988	68-69
CSB200-818	78
CSB200-822	79
CSB200-897	80
CSB200-898	81
MAI602-M4D80	22-23

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

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