

We make  
the impossible  
possible!



Aqeri develops and produces rugged computer and communication technology that meets or exceeds customers' requirements.

24/7 operations during extreme conditions and worst case scenarios - as standard.

We make the impossible possible!



Our customers often demand tailor-made solutions with specifications that are unique to their application. With our knowledge based on over 20 years of experience in the industry we have specialized in delivering solutions that meet the needs of our customers in the shortest time possible. Our product range covers everything from fully rugged computers in the smallest form factor to rack mounted servers.

We have a tool box of tested, verified and field proven hardware building blocks that we use when developing new products. We develop climate control units, cooling and heating systems, ruggedized power supply solutions as well as the right choice of interface connectors. These components are included in every Aqeri product.

#### SWEDEN



Aqeri has a long and successful relationship with the Swedish Defence Material Administration. Our computer and communications solutions are used by all the branches of the Swedish military and are employed both at home and in peacekeeping missions abroad.

The fact that our products are compatible with most international units has strengthened our position within the Nordic Battlegroup - a rapid response force controlled by the European Union and led by Sweden.

**Aqeri 96400**  
A robust IP telephone for military communications.



#### INDIA



After establishing a definitive market presence on the Subcontinent, Aqeri has secured major orders with the Indian Ministry of Defence. This vast country has extensive coastlines and encompasses terrain as varied as scorching deserts and snow-capped mountains.

These harsh conditions pose extraordinary demands and Aqeri's computer and communications solutions operate in all of them. Our products are now being employed at sea, in supply transports and inside track and armored vehicles.

**Aqeri 91050-01**  
A rugged military version of HP Z400 high-end workstation computer.





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**Aqeri**

**9102**

## 2U Computer

Aqeri 9102 is a rugged 19" 2U slim line computer for use in harsh environments. Its' small dimensions and front accessibility makes it suitable for space critical applications. The chassis is fully sealed for protection against dust and corrosive elements. Cooling is provided by a heat exchanger cooling system. A fully aluminum construction stands for low radiation and high noise immunity.

The rugged design, including a separately hinged cradle for mass storage units, gives protection against shocks and vibration. An internal heating and climate control system makes the unit usable in extremely low-temperature environments.

Based on COTS technology, the computer can be configured for various server and workstation applications.

### Features:

- > Fully sealed all aluminum 19" 2U chassis
- > All connectors accessible from the front
- > Mounting space for HDD, FDD, DVD-ROM
- > Cardbus adapter for additional expansion
- > Integrated heating and climate control system



#### TECHNICAL SPECIFICATIONS

Processor:	Intel® Core i7-2720QM 3.3 Ghz
Memory:	DDR3 up to 16GB
Operating system:	Optional, Windows, Linux
Storage:	Up to 2x 2,5" or 3,5" HDD/SSD drive and 1x DVD-RW
RAID:	Optional 0/1

#### I/O Interfaces

USB:	x2
Gigabit Ethernet, Fibre Ethernet optional	x2
VGA:	x1
RS2321x RS-232/422/485:	x1
Graphics:	Intel® HD integrated Graphics 6000 Up to 2048 x 1536

#### CONNECTORS

USB:	Hirose
Ethernet:	RJ45 and/or SC
VGA:	HD-DSUB
RS232:	DSUB
DC in:	MS3106F 10SL-3S

#### PHYSICAL CHARACTERISTICS

Dimensions:	440 x 88 x 400mm (WxHxD)
Weight:	12 kg
Color:	Green, other optional

#### ELECTRICAL SPECIFICATIONS

Power requirements:	28VDC (18-36VDC, safe start Min 21VDC, Max 33VDC)
Power consumption:	68W at 28VDC (excluding heaters)

#### ENVIRONMENTAL CHARACTERISTICS

Designed to fulfill (other standards on request):	MIL-STD-461E MIL-STD-1275B MIL-STD-810G European CE Option
TEMPEST SDIP-27 Level A, B, C:	Option
Temperature Operating:	-20°C to +55°C
Vibration Operating (depending on configuration):	10-500Hz 1,04g rms
Shock Operating (depending on configuration):	40g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	3000m

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# Aqeri

# 9104

## 4U Computer

Aqeri 9104 is a rugged 19" 4U high computer for use in harsh environments. The chassis is fully sealed for protection against dust and corrosive elements. Cooling is provided by a heat exchanger cooling system. A fully aluminum construction stands for low radiation and high noise immunity (according to MIL-STD-461E). The rugged design, including a separately hinged cradle for mass storage units, gives protection against shocks and vibration. An internal heating and climate control system makes the unit usable in extremely low-temperature environments. Based on COTS technology, the computer can be configured for a various server and workstation applications.

### Features:

- > Fully sealed all aluminum 19" 4U chassis
- > All connectors accessible from the front
- > Mounting space for HDD, FDD, DVD-ROM, SSD
- > Integrated heating and climate control system



**TECHNICAL SPECIFICATIONS**

Processor:	Intel® Core i7-2600 3.4GHz
Memory:	DDR3 up to 16GB
Operating system:	Optional, Windows, Linux
Storage:	Up to 3x 2,5" or 3,5" HDD/SSD drive and 1x DVD-RW
RAID:	Optional 0/1/5
I/O Interfaces:	
USB:	x2
Gigabit Ethernet,	
Fibre Ethernet optional:	x2
VGA:	x1
RS2321x RS-232/422/485:	x1
Graphics:	QM57 integrated Gen 5.75 graphics Media Accelerator Up to 2048 x 1536 resolution
Expansion:	Optional 2x PCI 32Bit, 1x PCIe X16

**CONNECTORS**

USB:	Hirose
Ethernet:	RJ45 and/or SC
VGA:	HD-DSUB
RS232:	DSUB
DC in:	MS3106F 10SL-3S

**PHYSICAL CHARACTERISTICS**

Dimensions:	440 x 177 x 450mm (WxHxD)
Weight:	15 kg
Color:	Green, other optional

**ELECTRICAL SPECIFICATIONS**

Power requirements:	28VDC (18-36VDC, safe start Min 21VDC, Max 33VDC)
Power consumption:	122W at 28VDC (excluding heaters)

**ENVIRONMENTAL CHARACTERISTICS**

Designed to fulfill	
(Other standards on request):	MIL-STD-461E MIL-STD-1275B MIL-STD-810G European CE
TEMPEST SDIP-27 Level A, B, C:	Option
Temperature Operating:	-20°C to +55°C
Vibration Operating	
(depending on configuration):	10-500Hz 1,04g rms
Shock Operating	
(depending on configuration):	15g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	3000m

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# Aqeri 91022

## Mobile Computer

The Aqeri 91022 Mobile Computer is a small form factor product designed to be deployed in areas with the most harsh environments and space critical demands. A typical scenario is deployed vehicles where space and weight is critical. The Aqeri 91022 computer can be mounted stand-alone or as an option in 19" racks. Aqeri 91022 has the latest high performance processor, 4<sup>th</sup> generation Intel Haswell and is expandable with up to 2 SSD drives in a RAID configuration for mission critical data.

As a standard the Aqeri field proven ASCC functions (Aqeri Supervisor and Climate Control) is implemented. The Aqeri 91022 has designed filtering to comply with MIL-STD-461E levels. As an option Aqeri 91022 can be ordered as a TEMPEST SDIP-27 Level A certified product to comply with NATO compromising emanations standards.

### Features:

- > 4<sup>th</sup> generation Intel Haswell CPU
- > Aqeri next generation Rugged mobile computer
- > Ideal for C4ISR Areas
- > Fully sealed aluminum chassis
- > Integrated Climate Control
- > 9-36 VDC for Vehicle applications
- > For use in harsh environments





**TECHNICAL SPECIFICATIONS**

Processor:	4 <sup>th</sup> gen Intel Core i7-4700EQ 2.4 - 3.4Ghz, 6Mb cache, 4x core, 8x threads
Storage:	1-2 2,5" SSD
Memory:	DDRIII 1600Mhz up to 16Gb
Graphics:	Intel HD Graphics 4600

**I/O Interfaces:**

USB:	x4
Gigabit Ethernet:	x2 (Fiber as option)
VGA:	x1
RS232:	x1

**CONNECTORS**

USB:	AMC
Gigabit Ethernet:	AMC
VGA:	AMC
RS232:	AMC

**PHYSICAL CHARACTERISTICS**

Dimensions:	220 x 88 x 280mm (WxHxD)
Weight:	4,6 kg
Color:	Green, other optional

**ELECTRICAL SPECIFICATIONS**

Power requirements:	9-36 VDC
Power consumption:	Max 70W at 28VDC (excluding heaters)

**ENVIRONMENTAL CHARACTERISTICS****Designed to fulfill**

(other standards on request):	MIL-STD-461E MIL-STD-1275D MIL-STD-810G European CE
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**TEMPEST SDIP-27 Level A, B, C:**

Protection:	Option IP65
Temperature Operating:	-32°C to +55°C
Vibration Operating:	5-500Hz 2,18g rms
Shock Operating:	40g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing

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# Aqeri

# 91030

## 3U Computer

The Aqeri 91030 is a front accessible 19" 3U computer for use in harsh environments. The chassis is fully sealed for protection against dust and corrosive elements. The full aluminium construction allows for low radiation and high noise immunity (in accordance with MIL-STD-461E). The internal heating and climate control system guarantees operations in extreme temperature environments. The Xeon dual core processor makes this a high performance computer which also features Raid 0/1/5 with one up to four Hot Swap flash drives.

### Features:

- > Raid 0/1/5 Hot Swap
- > Xeon dual core processor
- > Fully sealed, compact chassis only 3U, 19"



**TECHNICAL SPECIFICATIONS**

Processor:	Intel® 2.66GHz Xeon Dual Core (optional 2xCPU)
Memory:	DDR2 up to 8GB
Operating system:	Optional, Windows, Linux
Storage:	Up to 4x 2,5" or 3,5" HDD/SSD drive 1x DVD-RW
RAID:	Optional 0/1/5
I/O Interfaces:	
USB:	x3
Gigabit Ethernet:	x2
VGA (stretched or cloned desktop):	x2
PS/2:	x1
RS232 1x RS-485:	x1
Line in and Line out Audio:	x2
Graphics:	Matrox M-series Up to 2048 x 1536 resolution
Expansion:	n/a

**CONNECTORS**

USB:	MIL 38999
Ethernet:	MIL 38999
VGA:	MIL 38999
RS232:	MIL 38999
Audio:	MIL 38999
PS/2:	MIL 38999
DC in:	MS3106F 10SL-3S

**PHYSICAL CHARACTERISTICS**

Dimensions:	440 x 132.50 x 500mm (WxHxD)
Weight:	13 kg
Color:	Green, other optional

**ELECTRICAL SPECIFICATIONS**

Power requirements:	28VDC (18-36VDC, safe start Min 21VDC, Max 33VDC)
Power consumption:	120W at 28VDC (excluding heaters)

**ENVIRONMENTAL CHARACTERISTICS**

Designed to fulfill	
(Other standards on request):	MIL-STD-461E MIL-STD-1275B MIL-STD-810G European CE
TEMPEST SDIP-27 Level A, B, C:	Option
Temperature Operating:	-20°C to +55°C
Vibration Operating	
(depending on configuration):	10-500Hz 1,04g rms
Shock Operating:	
(depending on configuration):	15g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	3000m

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# Aqeri

## 91050-01

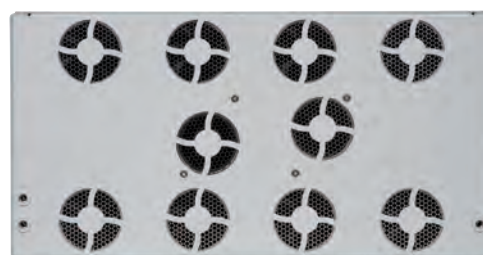
## 5U Computer

Aqeri 91050 is a rugged military version of HP Z400 high-end workstation computer.

The unit is a rugged 19" 5U computer for use in harsh environments. Its' unique cooling system makes it possible to use a Xeon processor with very high performance and high-end PCI express graphics from Nvidia. The chassis is fully sealed for protection against dust and corrosive elements. A fully aluminum construction stands for low radiation and high noise immunity. The rugged design gives protection against shock and vibration.

### Features:

- > Fully sealed all aluminum 19" 5U chassis
- > All connectors accessible from the front
- > 28VDC power supply (18-36VDC)
- > Up to 4pcs SATA drives, SSD/HDD with RAID
- > Mounting space for DVD-RW
- > Integrated heating and climate control system



*Backside*



#### TECHNICAL SPECIFICATIONS

Processor:	3,06 Ghz XEON Quad Core
Memory:	DDR3 up to 6Gb
Operating system:	Optional, Windows, Linux
Storage:	Up to 4x 2,5" or 3,5" HDD/SSD drive and 1x DVD-RW
RAID:	Optional 0/1/5
I/O Interfaces:	
USB:	x7
Gigabit Ethernet:	x3
VGA:	x1
PS/2:	x1
Temp monitoring:	x1
Line in and 1x Line out 1x Mic Audio:	x3
RS232:	x1
Graphics:	Nvidia FX1800
	Up to 2560x1600 resolution
Expansion:	n/a

#### CONNECTORS

USB:	MIL 38999
Gigabit Ethernet:	MIL 38999
VGA:	MIL 38999
PS/2:	MIL 38999
Temp Monitoring:	MIL 38999
Audio:	MIL 38999
RS232:	MIL 38999
DC In:	MIL 5015

#### PHYSICAL CHARACTERISTICS

Dimensions:	440 x 222 x 495mm (WxHxD)
Weight:	23 kg
Color:	Green, other optional

#### ELECTRICAL SPECIFICATIONS

Power requirements:	28VDC (18-36VDC, safe start Min 21VDC, Max 33VDC)
Power consumption:	280W at 28VDC (excluding heaters)

#### ENVIRONMENTAL CHARACTERISTICS

Designed to fulfill (Other standards on request):	MIL-STD-461E MIL-STD-1275B MIL-STD-810G European CE
TEMPEST SDIP-27 Level A, B, C:	Option
Temperature Operating:	-20°C to +55°C
Vibration Operating (depending on configuration):	10-500Hz 1,04g rms
Shock Operating (depending on configuration):	15g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	3000m

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**Aqeri**

**91200**

## 2U Rugged Server

Aqeri 91200 is a rugged high performance server for use in harsh environments. Its' unique cooling system makes it possible to use dual Xeon processors with very high performance from Intel®. The chassis is fully sealed for protection against dust and corrosive elements. The rugged design gives protection against shock and vibration.

### Features:

- > Rugged high performance dual XEON server
- > 2U 19"
- > IP54 sealed
- > Fiber and copper gigabit ethernet



**TECHNICAL SPECIFICATIONS**

Processor:	2x Intel® Xeon® Processor E5-2618L v2 (15M Cache, 2.00 GHz)
Memory:	Up to 512Gb ECC DDR3 1866Mhz
Operating system:	Optional, Windows, Linux, VmWare
Storage:	2x 2,5" SSD RAID1
Graphics:	Matrox G200eW 16Mb DDR2

**I/O Interfaces:**

USB 2.0:	x6
Gigabit Ethernet Copper:	x2
Gigabit Ethernet Fiber:	x2
DVI-D:	x1

**CONNECTORS**

USB 2.0:	20WC98PN
Gigabit Ethernet Copper:	20WB35PN
Gigabit Ethernet Fiber:	LCF TV 20GN
VGA:	20WE26PN
DC In:	MS3102E10SL-3P

**PHYSICAL CHARACTERISTICS**

Dimensions:	440 x 88 x 450mm (WxHxD)
Weight:	10kg
Color:	Green, option any color

**ELECTRICAL SPECIFICATIONS**

Power requirements:	28VDC (18-36VDC)
Power consumption:	100W@ 28VDC (excluding heaters)

**ENVIRONMENTAL CHARACTERISTICS**

Designed to fulfill (other standards on request):	MIL-STD-461E MIL-STD-1275B MIL-STD-810G
Temperature Operating:	-20°C to +55°C
Vibration Operating (depending on configuration):	5-500Hz 4,5g rms
Shock Operating (depending on configuration):	40g, 11ms, saw tooth
Humidity:	5% to 95% non condensing
Altitude Operating:	3000m

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# Aqeri

## 91400

## 4U Computer

The Aqeri 91400 is a front accessible 19" 4U computer for use in harsh environments. With a depth of only 390 mm it can be used in space critical applications. The chassis is fully sealed for protection against dust and corrosive elements. The full aluminum construction allows for low radiation and high noise immunity. The internal heating and climate control system guarantees operations in extreme temperature environments. The Core 2 Duo processor makes this a high performance computer which also features raid with two Hot Swap drives.

The Aqeri 97002, Shock and Vibration Absorber, can withstand extreme shock forces. It has a compact size since the height is only 68 mm.

### Features:

- > Raid 1 Hot Swap
- > Fully sealed, compact universal chassi for 19" or stand alone
- > All connectors accessible from the front
- > Cooling by a separate internal heat-exchanger system
- > For extreme environmental conditions.





#### TECHNICAL SPECIFICATIONS:

Processor:	Intel® 2.13GHz Core2Duo
Memory:	DDR2 up to 4GB
Operating system:	Optional, Windows, Linux
Storage:	Up to 2x2,5" or 3,5" HDD/SSD drive and 1x DVD-RW
RAID:	Optional 0/1
I/O Interfaces:	
USB:	x4
Parallell:	x1
Gigabit Ethernet:	x1
VGA:	x1
PS/2:	x1
RS232:	x2
RS485:	x1
Line in and Mic Audio:	x2
Graphics:	Intel® Graphics Media Accelerator 3100
	Up to 2048 x 1536 Resolution
Expansion:	n/a

#### CONNECTORS

USB:	MIL-C-26482
Ethernet:	MIL-C-26482
VGA:	MIL-C-26482
RS232:	MIL-C-26482
Audio:	MIL-C-26482
Parallell:	MIL-C-26482
PS/2:	MIL-C-26482
DC In:	MIL-C-26482

#### PHYSICAL CHARACTERISTICS:

Dimensions:	440 x 177 x 390mm (WxHxD)
Weight:	17kg
Color:	Green, other optional

#### ELECTRICAL SPECIFICATIONS:

Power requirements:	28VDC (18-36VDC, safe start Min 21VDC, Max 33VDC)
Power consumption:	110W at 28VDC (excluding heaters)

#### ENVIRONMENTAL CHARACTERISTICS:

Design to fulfill	
(Other standards on request):	MIL-STD-461
	MIL-STD-1275B
	MIL-STD-810G
	European CE
Temperature Operating:	-20°C to +55°C
Vibration Operating	
(depending on configuration):	10-500Hz 1,04g rms
Shock Operating	
(depending on configuration):	15g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	3000m

#### AQERI 97002 - SHOCK AND VIBRATION ABSORBER:

Dimensions:	438 x 68 x 385mm (WxHxD)
Weight:	5kg
Color:	Green, other optional

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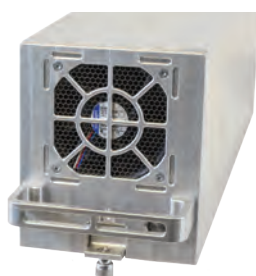
# Aqeri 91410

## Rugged Computer

The 91410 is a rugged computer in 4U chassis with up to 3 swappable computer modules. Each module containing Intel Server Xeon processor and PCI / PCIe interfaces for additional add-in boards.

### Features:

- > 3 Xeon Servers in 1
- > Single or Dual Modules
- > Support Aircraft Power Supply
- > Lockable Server Modules



*Single module front*



*Single module back*



#### TECHNICAL SPECIFICATIONS:

Processor:	Intel E3-1275V2 3.5Ghz
Memory:	16GB DDR3
Operating system:	Windows, Linux
Storage:	Up to 5 2.5" SSD (option RAID 0, 1, 5, 10)

#### I/O Interfaces:

Gigabit Ethernet:	x2
DVI:	x1
USB:	x2 (Optional x10)
PCIeX16:	x1
PCI-X:	x2
PCI:	x1

#### CONNECTORS

Gigabit Ethernet:	RJ45
DVI:	DVI Dual Female
USB:	USB A

#### PHYSICAL CHARACTERISTICS:

Dimensions:	486 x 195 x 511mm (WxHxD)
Weight:	Depending on configuration
Color:	Treated aluminum, other optional

#### ELECTRICAL SPECIFICATIONS:

Power requirements:	AC 90-254VAC 50Hz (option 115VAC/400Hz)
Power consumption:	105W

#### ENVIRONMENTAL CHARACTERISTICS:

Design to fulfill	European CE
(Other standards on request):	0°C to +45°C
Temperature Operating	
Vibration Operating	
(depending on configuration):	10-500Hz 1,04g rms
Shock Operating	
(depending on configuration):	15g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	3000m

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# Aqeri 94100

## Rugged All-in-one

The Aqeri 94100 is a ruggedized military 10" all-in-one computer and display made for use in harsh environments.

It has the latest high performance Intel processor, 4th generation Core i7 Quad Core processor. Attached is a QWERTY keyboard with integrated mouse, 16 user programmable functions buttons, resistive touch display with the possibility to turn off touch function, integrated LOG function to read total up-times.

As a standard the Aqeri field proven ASCC functions (Aqeri Supervisor and Climate Control) is implemented.

### Features:

- > 4th generation Intel Core i7 Quad Core CPU
- > Computer, 10" Display and Keyboard in one
- > ASCC functions as standard
- > Designed to comply with MIL-STD-461E Army Ground Levels





**TECHNICAL SPECIFICATIONS**

Processor:	4th generation Intel I7-4710HQ quad core 2.5Ghz, 6MB cache
Memory:	DDR3 up to 16Gb
Operating system:	Optional, Windows, Linux
Storage:	1x SSD SLC Wide Temp 128Gb
Graphics:	Intel HD Graphics 4600 shared memory up to 1024Mb
Resolution:	1024x768
Brightness:	500 cd/m² LED
Colors:	16.2 Million
Viewing Angle:	176(H) / 176(V)
Contrast:	1200:1
Functions keys:	2x8
Touch witch on/off control:	Resitive

**KEYBOARD**

Keyboard:	QWERTY with integrated mouse
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**I/O INTERFACES**

USB 2.0:	x3
Gigabit Ethernet:	x2
VGA:	x1
Audio HD, MIC IN, AUDIO OUT:	x1
RS232/RS422/RS485:	x6

**CONNECTORS**

USB 2.0:	USBF TV21G
Gigabit Ethernet:	RJF TV21G
VGA:	38999
Audio HD, MIC IN, AUDIO OUT:	38999
RS232/RS422/RS485:	38999
DC In:	38999

**PHYSICAL CHARACTERISTICS**

Dimensions:	360x 278x 150 (WxHxD with closed keyboard)
Weight:	10 kg
Color:	Green, other optional

**ELECTRICAL SPECIFICATIONS**

Power requirements:	28VDC (18-36VDC)
Power consumption:	35W at 28VDC

**ENVIRONMENTAL CHARACTERISTICS****Designed to fulfill**

(Other standards on request):	MIL-STD-461E
	MIL-STD-1275D
	MIL-STD-810G
	European CE

**MIL-STD-810G**

Temperature Operating:	-20°C to +55°C
Temperature Storage:	-40°C to +70°C
Humidity:	507.5 Proc II
Vibration:	514.6 Proc I Ground Mobile
Shock:	516.5 Proc I and IV 40G, 11ms
IP:	65
Salt fog:	509.5
Rain:	506.5 Proc II
Sand & Dust:	510.5 Proc I and II
Solar radiation:	505.5

**MIL-STD-461E**

RE102
RS103
CE102
CS101
CS114

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DEFENSE

# Aqeri 24300

## Thin Client Tempest Level A

### Features:

- > 24" TN LED Backlit LCD Monitor
- > Horizontal 24 - 76 kHz, vertical 50 - 63 Hz
- > Resolution FullHD 1920x1200 @ 60Hz
- > Brightness 250 cd/m<sup>2</sup>, Contrast ratio 1000:1 typ.
- > Viewing Angle: horizontal 160°, vertical 160°
- > Signal rise 5 ms
- > DELL Wyse Zero Client P25
- > Chip Teradici TERA2321 PCoIP
- > Memory 512MB DDR3-RAM
- > Authentication with Cherry SmartBoard G83-6744
- > Weight ca. 8,5 kg, Dimensions (W x H x D, mm) 440 x 420 x 80
- > SDIP 27 Level A BSI-certified, TEMPEST-Z-NR : 140424CO1015A

For VDI environments based on VMware View, matching the optimal end point per varying user needs throughout an organization can be challenging. With the new P class family of VMware zero clients that's no longer the case. In TEMPEST Level A implementation, this System permits unrestricted processing of classified information.



TECHNICAL DATA

Standard-version comes with:

ATS-2425T	HP LA2405x 24" DELL Wyse Zero Client P25		
I/O:	2 x USB D-Sub 9	(for certified Peripherals)	
	2 x USB D-Sub 9	(Keyboard & Mouse)	
	1 x LAN D-Sub 15	(10/100/1000Base-Tx)	
ATS-G836744T	Cherry SmartBoard G83-6744		
ATS-0930T	Cherry Mouse M-5400		
Options:	100Base-FX	SC	
	1000Base-SX	SC	
	DVI		HD26 (second Display)
	Audio		Headset

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DEFENSE

**Aqeri**

**93521**

## KVM-Switch

Aqeri 93521 is a rugged 19" rack mountable terminal switch designed for use in harsh environments. The unit includes a switching unit for sharing one keyboard with pointing device and one monitor between up to four different computers. The chassis is fully sealed for protection against dust and corrosive elements. The full aluminium construction allows for low radiation and high noise immunity (in accordance with MIL-STD 461 E/F).

### Features:

- > No external power required
- > Switching up to four computers
- > MIL connectors





#### TECHNICAL SPECIFICATIONS

Channels: 4  
Emulation: One computer per channel

#### I/O Interfaces

VGA: x1  
PS/2 Mouse and Keyboard: x1  
Computers: x4

#### CONNECTORS

PS/2 Mouse and Keyboard: MS3114F12-10P  
Mouse: DSUB  
VGA: MS3114F14-19S  
Computers: SJT07RT16-35S 014)

#### PHYSICAL CHARACTERISTICS

Dimensions: 444 x 88 x 300mm (WxHxD)  
Weight: 4 kg  
Color: Green, other optional

#### ELECTRICAL SPECIFICATIONS

Power requirements: No external power required

#### ENVIRONMENTAL CHARACTERISTICS

Designed to fulfill  
(Other standards on request): MIL-STD-461E  
MIL-STD-1275B  
MIL-STD-810G  
European CE

TEMPEST SDIP-27 Level A, B, C: Option  
Temperature Operating: -20°C to +55°C  
Vibration Operating: 10-500Hz 1,04g rms  
Shock Operating: 15g, 11ms, ½ sine wave  
Humidity: 5% to 95% non condensing  
Altitude Operating: 3000m

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DEFENSE

**Aqeri**

**96103**

## Mobile Router

Aqeri 96103 Mobile Router and Integrated Ethernet switch is based on Cisco 5915 Embedded Service Router. The Aqeri 96103 is a small form factor product designed to be deployed in areas with the most demanding environments. A typical scenario is deployed vehicles where space and weight is critical.

The Router has integrated Ethernet switching function and Aqeri field proven ASCC functions (Aqeri Supervisor and Climate Control). The Aqeri 96103 has a designed filtering system to comply with MIL-STD-461E Army Ground levels. As an option Aqeri 96103 can be ordered as a TEMPEST SDIP-27 Level A certified product to comply with NATO compromising emanations standards.

### Features:

- > Ideal for C4ISR Areas
- > For use in harsh environments
- > Fully sealed aluminum chassis
- > Integrated Climate Control
- > 9-32 VDC for vehicle applications



## TECHNICAL SPECIFICATIONS

**Routerboard:** Cisco 5915 Embedded Service Router

## CONNECTORS

**AMC Advanced Military Connectors:** 6

**100Mbit Ethernet Routed Parts:** 2

**100Mbit Ethernet Switched Parts:** 3

**Console Port:** 1

**Purge button:** 1

## PHYSICAL CHARACTERISTICS

**Dimensions:** 150 x 75 x 220mm (WxHxD)

**Weight:** 3 kg

**Color:** Green, other optional

## ELECTRICAL SPECIFICATIONS

**Power requirements:** 9-32 VDC

**Power consumption:** Max 12W at 28VDC (excluding heaters)

## ENVIRONMENTAL CHARACTERISTICS

**Designed to fulfill**

**(other standards on request):** MIL-STD-461E Army Ground Level

MIL-STD-1275D

MIL-STD-810G

European CE

**TEMPEST SDIP-27 Level A, B, C:** Option

**Protection:** IP65

**Temperature Operating:** -32°C to +55°C

**Vibration Operating:** 5-500Hz 2,18g rms

**Shock Operating:** 40g, 11ms, ½ sine wave

**Humidity:** 5% to 95% non condensing

**Altitude Operating:** 3000m

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DEFENSE

**Aqeri**  
**9618**

## Dual fiber ethernet Switch

Aqeri 9618 is a rugged 19" rack mounted 100 Mbit dual 8-port fibre switch for use in harsh environments. The use of rack space is optimized by need of only 1.5U installation space. Military EMI requirements are to MIL-STD-461.

### Features:

- > Fully sealed all aluminum 19" 1.5U chassis
- > Two switches in one chassis
- > Integrated heating and climate control system
- > MIL-STD-1275 (28VDC power)



## TECHNICAL SPECIFICATIONS

**Switchboard:** 2 x Cisco Catalyst WS-C2940-8TT-S

## I/O Interfaces

**100Mbit Multimode (8+8):** x16

**Console:** x2

**100Mbit Multimode (1+1):** x2

## CONNECTORS

**100Mbit Multimode:** SC

**Console:** DSUB

**Uplink:** SC

**DC in:** MS3106F 10SL-3S

## PHYSICAL CHARACTERISTICS

**Dimensions:** 440 x 66 x 410mm (WxHxD)

**Weight:** 8 kg

**Color:** Green, other optional

## ELECTRICAL SPECIFICATIONS

**Power requirements:** 28VDC (18-36VDC, safe start Min 21VDC, Max 33VDC)

**Power consumption:** 60W at 28VDC (excluding heaters)

## ENVIRONMENTAL CHARACTERISTICS

**Designed to fulfill**

**(Other standards on request):** MIL-STD-461E

MIL-STD-1275B

MIL-STD-810G

European CE

Option

**TEMPEST SDIP-27 Level A, B, C:** -20°C to +55°C

**Temperature Operating:** 10-500Hz 1,04g rms

**Vibration Operating:** 15g, 11ms, ½ sine wave

**Shock Operating:** 5% to 95% non condensing

**Humidity:** 3000m

**Altitude Operating:**

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DEFENSE

# Aqeri

# 962460

## 2U Ethernet Switch

Aqeri 962460 is a rugged 19" Cisco-based switch for military applications. The switch has been specially designed to withstand harsh environments where operators place high demand on function and reliability. It works reliably inspite of dust, dirt, vibrations, strong electromagnetic fields and great temperature variations. Further, the fully aluminum construction stands for low radiation and high noise immunity.

### Features:

- > Fully sealed aluminum 19" 2U chassis
- > Based on Cisco WS-2960-24TT-L switch board
- > 20 x 10/100 Mbit in RJ45 connectors and 3 x 100Mbit Multimode fiber in SC connectors
- > Integrated heating and climate control



## TECHNICAL SPECIFICATIONS

**Switchboard:** Cisco WS-2960-24TT-L

### I/O Interfaces

**100Mbit Multimode:** x3

**10/100 Mbit:** x20

**Console:** x1

### CONNECTORS

**100Mbit Multimode:** SC

**10/100 Mbit:** RJ45

**Console:** DSUB

**DC In:** MS3106F 10SL-3S

### PHYSICAL CHARACTERISTICS

**Dimensions:** 440 x 86 x 400mm (WxHxD)

**Weight:** 8 kg

**Color:** Green, other optional

### ELECTRICAL SPECIFICATIONS

**Power requirements:** 28VDC (18-36VDC, safe start Min 21VDC, Max 33VDC)

**Power consumption:** 36W at 28VDC (excluding heaters)

### ENVIRONMENTAL CHARACTERISTICS

**Designed to fulfill**

**(Other standards on request):** MIL-STD-461E  
MIL-STD-1275B  
MIL-STD-810G  
European CE

**TEMPEST SDIP-27 Level A, B, C:** Option

**Temperature Operating:** -20°C to +55°C

**Vibration Operating:** 10-500Hz 1,04g rms

**Shock Operating:** 15g, 11ms, ½ sine wave

**Humidity:** 5% to 95% non condensing

**Altitude Operating:** 3000m

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DEFENSE

# Aqeri 962481

## 3U Ethernet Switch

Aqeri 962481 is a semi rugged 19" 3U Cisco-based Fiber and Copper Gigabit Switch with POE for Military and Industrial applications. Interface connectors, copper and fiber are IP54 sealed. The switch has been specially designed to withstand harsh environments where operators place high demand on function and reliability. It works reliably inspite of dust, dirt, vibrations, strong electromagnetic fields and standard temperature variations. Further, the fully aluminum construction stands for low radiation and high noise immunity.

### Features:

- > Fully sealed all aluminum 19" 3U chassis
- > Based on Cisco Catalyst 2960S
- > 20 x Gigabit in RJ45 connectors
- > 4 x Gigabit SX Multimode in LC connectors
- > Integrated heating and climate control



## TECHNICAL SPECIFICATIONS

Switchboard: Cisco Catalyst 2960S

### I/O Interfaces

Gigabit: x20  
PoE (7.5W / port): x10 of above interfaces  
1000Mbit SX Multimode: x4  
SNMP: x1  
Console: x1

### CONNECTORS

Gigabit: RJ45  
PoE: RJ45  
1000Mbit SX Multimode: LC  
SNMP: RJ45  
DC In: MS3102E 10SL-3P

### PHYSICAL CHARACTERISTICS

Dimensions: 440 x 132.45 x 500mm (WxHxD)  
Weight: 12 kg  
Color: Green, other optional

### ELECTRICAL SPECIFICATIONS

Power requirements: 48VDC  
Power consumption: Max 68W at 48VDC (excluding heaters)

### ENVIRONMENTAL CHARACTERISTICS

Designed to fulfill  
(Other standards on request): European CE, EN 60950-1  
Optional: MIL-STD-461E  
MIL-STD-1275B  
MIL-STD-810G  
Option  
TEMPEST SDIP-27 Level A, B, C:  
Temperature Operating: 0°C to +40°C  
Vibration Operating: 10-500Hz 1,04g rms  
Shock Operating: 15g, 11ms, ½ sine wave  
Humidity: 5% to 95% non condensing  
Altitude Operating: 3000m

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DEFENSE

**Aqeri**

**962482**

## 3U Ethernet Switch

Aqeri 962482 is a semi rugged 19" 3U Cisco-based Fiber and Copper Gigabit Switch with POE for Military and Industrial applications. Interface connectors, copper and fiber are IP54 sealed. The switch has been specially designed to withstand harsh environments where operators place high demand on function and reliability. It works reliably inspite of dust, dirt, vibrations, strong electromagnetic fields and standard temperature variations. Further, the fully aluminum construction stands for low radiation and high noise immunity.

### Features:

- > Fully sealed all aluminum 19" 3U chassis
- > Based on Cisco WS-C2960G-24TC-L
- > 12 x 100Mbit FX Multimode in LC connectors
- > 2 x Gigabit SX Multimode in LC connectors
- > 4 x Gigabit in RJ45 connectors
- > Integrated heating and climate control



## TECHNICAL SPECIFICATIONS

Switchboard: Cisco WS-C2960G-24TC-L

### I/O Interfaces

100Mbit Fx Multimode: x12

1000Mbit Sx Multitmode: x2

10/100/1000 BT: x4

SNMP: x1

Console: x1

### CONNECTORS

100Mbit Fx Multimode: LC

1000Mbit Sx Multimode: LC

10/100/1000 BT: RJ45

SNMP: RJ45

Console: RJ45

DC In: MS3102E 10SL-3P

### PHYSICAL CHARACTERISTICS

Dimensions: 440 x 132.45 x 500mm (WxHxD)

Weight: 12 kg

Color: Green, other optional

### ELECTRICAL SPECIFICATIONS

Power requirements: 48VDC

Power consumption: Max 82W at 48VDC (excluding heaters)

### ENVIRONMENTAL CHARACTERISTICS

Designed to fulfill

(Other standards on request): European CE, EN 60950-1

Optional: MIL-STD-461E

MIL-STD-1275B

MIL-STD-810G

TEMPEST SDIP-27 Level A, B, C: Option

Temperature Operating: 0°C to +40°C

Vibration Operating: 10-500Hz 1,04g rms

Shock Operating: 15g, 11ms, ½ sine wave

Humidity: 5% to 95% non condensing

Altitude Operating: 3000m

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DEFENSE

# Aqeri

# 962483

Aqeri 962483 is a semi rugged 19" 3U Cisco-based Fiber and Copper Gigabit Switch with POE for Military and Industrial applications. Interface connectors, copper and fiber are IP54 sealed. The switch has been specially designed to withstand harsh environments where operators place high demand on function and reliability. It works reliably inspite of dust, dirt, vibrations, strong electromagnetic fields and standard temperature variations. Further, the fully aluminum construction stands for low radiation and high noise immunity.

#### Features:

- > Fully sealed all aluminum 19" 3U chassis
- > Based on Cisco WS-C3560X-24P-S Layer 3
- > 20 x Gigabit in RJ45 connectors
- > 4 x Gigabit SX Multimode in LC connectors
- > Integrated heating and climate control



## TECHNICAL SPECIFICATIONS

**Switchboard:** Cisco WS-C3560X-24P-S Layer 3

### I/O Interfaces

**Gigabit:** x20  
**PoE (7.5W / port):** x10 of above interfaces  
**1000Mbit SX Multimode:** x4  
**SNMP:** x1  
**Console:** x1

### CONNECTORS

**Gigabit:** RJ45  
**PoE:** RJ45  
**1000Mbit SX Multimode:** LC  
**SNMP:** RJ45  
**Console:** RJ45  
**DC In:** MS3102E 10SL-3P

### PHYSICAL CHARACTERISTICS

**Dimensions:** 440 x 132.45 x 500mm (WxHxD)  
**Weight:** 12 kg  
**Color:** Green, other optional

### ELECTRICAL SPECIFICATIONS

**Power requirements:** 48VDC  
**Power consumption:** Max 110W at 48VDC (excluding heaters)

### ENVIRONMENTAL CHARACTERISTICS

**Designed to fulfill**  
**(Other standards on request):** European CE, EN 60950-1  
**Optional:** MIL-STD-461E  
MIL-STD-1275B  
MIL-STD-810G  
**TEMPEST SDIP-27 Level A, B, C:** Option  
**Temperature Operating:** 0°C to +40°C  
**Vibration Operating:** 10-500Hz 1,04g rms  
**Shock Operating:** 15g, 11ms, ½ sine wave  
**Humidity:** 5% to 95% non condensing  
**Altitude Operating:** 3000m

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DEFENSE

# Aqeri 96247

## 2U Ethernet Switch

Aqeri 96247 is a rugged 19" Cisco-based military switch for use in harsh environments. The chassis is fully sealed for protection against dust and corrosive elements. A fully aluminum construction stands for low radiation and high noise immunity. The rugged design gives protection against shocks and vibration. An internal heating and climate control system makes the unit usable in extremely low-temperature environments.

### Features:

- > Fully sealed aluminum 19" 2U chassis
- > Based on Cisco WS-2960-24TT-L switch board
- > 24 x 10/100 Mbit in 38999 MIL connectors
- > Integrated heating and climate control with status port
- > 18-36 VDC



TECHNICAL DATA

**TECHNICAL SPECIFICATIONS:**

**Switchboard:** Cisco WS-2960-24 TT-L

**I/O Interfaces**

**10/100 Mbit:** x24

**Console:** x1

**CONNECTORS**

**10/100 Mbit:** MIL-DTL-38999

**Console:** DSUB

**DC in:** MIL-C-5015

**PHYSICAL CHARACTERISTICS**

**Dimensions:** 444 x 88 x 400mm (WxHxD)

**Weight:** 8 kg

**Color:** Grey, other optional

**ELECTRICAL SPECIFICATIONS**

**Power requirements:** 18-36VDC operating (Safe start Min 21VDC, Max 33VDC)

**Power consumption:** 30W (excluding heaters)

**ENVIRONMENTAL CHARACTERISTICS**

**Designed to fulfill**

**(Other standards on request):** MIL-STD-461E

MIL-STD-1275B

MIL-STD-810G

European CE

**TEMPEST SDIP-27 Level A, B, C:** Option

**Temperature Operating:** -20°C to +55°C

**Vibration Operating:** 10-500Hz, 1,04rms

**Shock Operating:** 15g, 11ms, ½ sine wave

**Humidity:** 5% to 95% non condensing

**Altitude Operating:** 3000m

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DEFENSE

# Aqeri

## 96247-01

## 2U Ethernet Switch

Aqeri 96247-01 is a rugged 19" Cisco-based military switch with redundant power supply for use in harsh environments. The unit can be powered with both AC and/or DC. The chassis is fully sealed for protection against dust and corrosive elements. A fully aluminum construction stands for low radiation and high noise immunity. The rugged design gives protection against shocks and vibration. An internal heating and climate control system makes the unit usable in extremely low-temperature environments.

### Features:

- > Fully sealed aluminum 19" 2U chassis
- > Based on Cisco WS-2960-24TT-L switch board
- > 24 x 10/100 Mbit in 38999 MIL connectors
- > Integrated heating and climate control with status port
- > 19-31 VDC and/or 90-264 VAC



# TECHNICAL DATA

## TECHNICAL SPECIFICATIONS:

Switchboard: Cisco WS-2960-24 TT-L

## I/O Interfaces

10/100 Mbit: x24

Gigabit Ethernet: x2

Console: x1

## CONNECTORS

10/100 Mbit: MIL-DTL-38999

Gigabit Ethernet: MIL-DTL-38999

Console: DSUB

DC in: MIL-C-5015

## PHYSICAL CHARACTERISTICS

Dimensions: 444 x 88 x 400mm (WxHxD)

Weight: 9.1 kg

Color: Grey, other optional

## ELECTRICAL SPECIFICATIONS

Power requirements: 19-31 VDC and or 90-264 VAC 50-60Hz

Power consumption: 30W at 24 VDC, 65W at 230 VAC

## ENVIRONMENTAL CHARACTERISTICS

### Designed to fulfill

(Other standards on request): MIL-STD-461E

MIL-STD-1275B

MIL-STD-810G

European CE

TEMPEST SDIP-27 Level A, B, C: Option

Temperature Operating: -20°C to +55°C

Vibration Operating: 10-500Hz, 1,04rms

Shock Operating: 15g, 11ms, ½ sine wave

Humidity: 5% to 95% non condensing

Altitude Operating: 3000m

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DEFENSE

**Aqeri**

**9690**

## 1.5U Computer

Aqeri 9690 rack mounted computer is rugged and fully sealed to survive in harsh environments. The use of rack space is optimized by need of only 1.5U installation space. An internal heating system allows for startup and use in extremely low temperatures.

### Features:

- > Fully sealed all aluminum 19" 1,5U chassis
- > All connectors accessible from the front
- > Lockable hatch prepared for padlock
- > Integrated heating and climate control
- > Can be used as firewall with Tutus Software



#### TECHNICAL SPECIFICATIONS

Processor:	1Ghz Celeron
Memory:	1Gb DDR2
Operating system:	Optional, Windows, Linux
Storage:	1x 2,5" HDD/SSD drive or CF
I/O Interfaces	
100 Mbit Multimode:	x3
10/100 Mbit:	x1
USB:	x3
VGA:	x1
PS/2 Keyb:	x1
PS/2 Mouse:	x1
RS232:	x1
Graphics	Intel® 82852GM/82855GME Up to 1024x768 resolution

#### CONNECTORS

100 Mbit Multimode:	SC
10/100 Mbit:	RJ45
USB:	USB-A
VGA:	HD-DSUB
PS/2 Keyb:	DIN
PS/2 Mouse:	DSUB
RS232:	DSUB

#### PHYSICAL CHARACTERISTICS

Dimensions:	440 x 66 x 350mm (WxHxD)
Weight:	6 kg
Color:	Green, other optional

#### ELECTRICAL SPECIFICATIONS

Power requirements:	28VDC (18-36VDC, safe start Min 21VDC, Max 33VDC)
Power consumption:	36W at 28VDC (excluding heaters)

#### ENVIRONMENTAL CHARACTERISTICS

Designed to fulfill	
(Other standards on request):	MIL-STD-461E MIL-STD-1275B MIL-STD-810G European CE
TEMPEST SDIP-27 Level A, B, C:	Option
Temperature Operating:	-20°C to +55°C
Vibration Operating :	10-500Hz 1,04g rms
Shock Operating:	15g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	3000m

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DEFENSE

# Aqeri 96400

## IP-phone

Aqeri 96400 is our next generation rugged IP phone specially designed for military applications. The IP phone delivers the latest technology and advancements in IP telephony. It provides communication over the same data network as your computer, allowing you to place and receive phone calls, put calls on hold, transfer calls, make conference calls, and so on. Aqeri 96400 is built into a fully sealed and vibration proof aluminum chassis.

### Features:

- > High-resolution grayscale display for easy use of Cisco unified Communications and third-party telephone applications
- > Streamlined access to communications information, timesaving applications, and feature usage details
- > A high-quality hands-free speakerphone and built-in headset connection
- > Support for PoE (Power over Ethernet)
- > Table- or wallmounted, VESA 100



**TECHNICAL SPECIFICATIONS**

Phone:	Cisco Unified IP Phone 7962G
Codec Support:	G.711a, G.711 $\mu$ , G.729a, G.729ab, G.722, and iLBC audio compression
Quality of Service (QoS) Options:	Supports differentiated services code point (DSCP) and 802.1Q/p standards
Quality of Services:	Traffic classification by ACL, IEEE 802.1p/Q, DownStreamQoS™, Priority, Weighted fair queuing (WFQ), Hierarchical traffic classes
Signaling Protocols:	Skinny Client Control Protocol (SCCP) and Session Initiation Protocol (SIP) with Cisco call control
Ethernet Switch:	Internal 2-port Cisco Ethernet switch allows for a direct connection to a 10/100BASE-T Ethernet network through an RJ-45 interface with single LAN connectivity for both the phone and a colocated PC. System administrator can designate separate VLANs (802.1Q) for the PC and phone, providing improved security and reliability of voice and data traffic.

*For more technical details, see Cisco web*

**I/O Interfaces:**

Ethernet:	x2
Aux:	x1
Headset:	x1 (Peltor™ ComTac XP Headset as an option)
DC in:	x1

**CONNECTORS**

Ethernet:	RJ45
Aux:	Hirose
Headset:	RJ45
DC In:	MS3106F 10SL-35

**PHYSICAL CHARACTERISTICS**

Dimensions:	285 x 52 x 228.5mm (WxHxD)
Weight:	3 kg
Color:	Green, optional any color

**ELECTRICAL SPECIFICATIONS**

Power requirements:	28VDC (18-36VDC) or IEEE 802.3af PoE (Class 2)PoE
Power consumption:	5W at 28VDC (excluding heaters)

**ENVIRONMENTAL CHARACTERISTICS****Designed to fulfill**

(Other standards on request):

MIL-STD-461E

CE102

CE101

RE102

CS114

CS115

CS116

MIL-STD-810G

500.5 Low Pressure, 40.000 feet non op, 30.000 feet op

501.5 High Temp +70C non op, +55 op

502.5 Low Temp -40C non op, -30 op

508.6 Fungus

514.6 Vibration Ground vehicle/wheeled tracked trailer

516.6 Shock 20g / 11ms

507.5 Humidity 5-95% non condensing

510.5 Sand and Dust

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DEFENSE

**Aqeri**

**97100**

## 1U VoIP Gateway

Aqeri 97100 rugged VoIP Gateway-Router supports eight FXS telephone connections. Combine Voice over IP with advanced Quality of Service (QoS) and full Internet access and security features to provide best in class service and voice quality. This integrated access router and VoIP Gateway benefits both service providers and enterprise network administrators with a lower cost of ownership. The unit is built into a fully sealed aluminum chassis.

### Features:

- > Integrated access router and VoIP Gateway
- > Supports eight FXS telephone connections
- > Based on Patton Smart Node 8 FXS



**TECHNICAL SPECIFICATIONS**

<b>VoIP Board:</b>	Patton Smartnode 4528
<b>Voice Processing Voice code:</b>	G.711 A-Law/ $\mu$ -Law (64kbps), - G.726 (ADPCM 40, 32, 24, 16 kbps)
<b>Voice Signalling:</b>	H.323v4, SIPv2
<b>Management:</b>	Web GUI, Industry standard CLI with local console (CRJ-45, RS-232) and remote Telnet access, SNMP v1 agent (MIB II and private MIB)
<b>Quality of Services:</b>	Traffic classification by ACL, IEEE 802.1p/Q, DownStreamQoS™, Priority, Weighted fair queuing (WFQ), Hierarchical traffic classes

*For more technical details, see Patton web*

**I/O Interfaces:**

<b>FXS:</b>	x8
<b>100 Mbit Multimode:</b>	x1
<b>10/100 Mbit:</b>	x1
<b>Console:</b>	x1

**CONNECTORS**

<b>FXS:</b>	RJ11
<b>100 Mbit Multimode:</b>	SC
<b>10/100 Mbit:</b>	RJ45
<b>Console:</b>	DSUB
<b>DC In:</b>	MS3106F 10SL-3S

**PHYSICAL CHARACTERISTICS**

<b>Dimensions:</b>	440 x 42 x 300mm (WxHxD)
<b>Weight:</b>	3 kg
<b>Color:</b>	Green, other optional

**ELECTRICAL SPECIFICATIONS**

<b>Power requirements:</b>	28VDC or PoE (18-36VDC, safe start Min 21VDC, Max 33VDC)
<b>Power consumption:</b>	15W at 28VDC (excluding heaters)

**ENVIRONMENTAL CHARACTERISTICS**

<b>Designed to fulfill</b>	
<b>(Other standards on request):</b>	MIL-STD-461E MIL-STD-810G European CE Option
<b>TEMPEST SDIP-27 Level A, B, C:</b>	
<b>Temperature Operating:</b>	-20°C to +55°C
<b>Vibration Operating</b>	
<b>(depending on configuration):</b>	10-500Hz 1,04g rms
<b>Shock Operating</b>	
<b>(depending on configuration):</b>	15g, 11ms, ½ sine wave
<b>Humidity:</b>	5% to 95% non condensing
<b>Altitude Operating:</b>	3000m

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DEFENSE

# Aqeri

# 98211

## 4U Router

Aqeri 98211 is a military router based on Cisco 2821-HSEC/9. The unit is equipped with Cisco modules for Ethernet, FXO, FXS, V35, ISDN etc. Aqeri 98211 has internal climate control for use in a wide temperature area and a temperature monitoring port for alarm output. Further, it has an internal redundant AC power unit and a 24VDC outlet for driving external equipment.

### Features:

- > 19" 4U
- > Redundant 90-264 VAC, 50-60 Hz
- > 24VDC outlet
- > Temperature monitoring
- > Interfaces for Ethernet, FXO, FXS, V35, ISDN, Console, etc.



**TECHNICAL SPECIFICATIONS**

**Router Board:** Cisco 2821-HSEC/9

**I/O Interfaces**

**10/100 Mbit:** x6  
**FXO:** x4  
**FXS:** x2  
**V.35:** x8  
**ISDN:** x1  
**Aux:** x1  
**Console:** x1  
**Temp Monitoring:** x1  
**24VDC 5A:** x1

**CONNECTORS**

**10/100 Mbit:** MIL 38999  
**FXO:** MIL 38999  
**FXS:** MIL 38999  
**V.35:** MIL 38999  
**ISDN:** MIL 38999  
**Aux:** DSUB  
**Console:** DSUB  
**Temp Monitoring:** MIL 38999  
**24VDC 5A:** MS3100F 10SL-3S  
**AC In:** MIL 38999

**PHYSICAL CHARACTERISTICS**

**Dimensions:** 440 x 177 x 504mm (WxHxD)  
**Weight:** 17 kg  
**Color:** Green, other optional

**ELECTRICAL SPECIFICATIONS**

**Power requirements:** 90-264 VAC, 50-60Hz (Internal Redundant Power Supply)  
**Power consumption:** 110W (excluding heaters)

**ENVIRONMENTAL CHARACTERISTICS**

**Designed to fulfill**  
**(Other standards on request):** MIL-STD-461E  
MIL-STD-810G  
European CE  
Option  
**TEMPEST SDIP-27 Level A, B, C:** -20°C to +55°C  
**Temperature Operating:** 20-2000Hz 0,04g rms  
**Vibration Operating:** 40g, 6ms, ½ sine wave  
**Shock Operating:** 5% to 95% non condensing  
**Humidity:** 3000m  
**Altitude Operating:**

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DEFENSE

# Aqeri

# 98212

## 4U Router

Aqeri 98212 is a military router based on Cisco 2821-HSEC/9. It is equipped with Cisco modules for Ethernet, FXS, V35, ISDN etc. The Aqeri 98212 has internal climate control for use in a wide temperature area and a temperature monitoring port for alarm output. Further, it features has an internal redundant AC power unit.

### Features:

- > 19" 4U
- > Redundant 90-264 VAC-in power, 50-60 Hz
- > Temperature monitoring
- > Interfaces for Ethernet, FXS, V35, ISDN, Console etc.



## TECHNICAL SPECIFICATIONS

Router Board: Cisco 2821-HSEC/9

### I/O Interfaces

10/100 Mbit: x18  
 FXS: x2  
 V.35: x4  
 ISDN: x1  
 Aux: x1  
 Console: x1  
 Temp Monitoring: x1

### CONNECTORS

10/100 Mbit: MIL 38999  
 FXS: MIL 38999  
 V.35: MIL 38999  
 ISDN: MIL 38999  
 Aux: DSUB  
 Console: DSUB  
 Temp Monitoring: MIL 38999  
 AC In: MIL 38999

### PHYSICAL CHARACTERISTICS

Dimensions: 440 x 177 x 504mm (WxHxD)  
 Weight: 17 kg  
 Color: Green, other optional

### ELECTRICAL SPECIFICATIONS

Power requirements: 90-264 VAC, 50-60Hz (Internal Redundant Power Supply)  
 Power consumption: 110W (excluding heaters)

### ENVIRONMENTAL CHARACTERISTICS

#### Designed to fulfill

(Other standards on request): MIL-STD-461E  
 MIL-STD-810G  
 European CE

#### TEMPEST SDIP-27 Level A, B, C:

Option  
 Temperature Operating: -20°C to +55°C  
 Vibration Operating: 20-2000Hz 0,04g rms  
 Shock Operating: 40g, 6ms, ½ sine wave  
 Humidity: 5% to 95% non condensing  
 Altitude Operating: 3000m

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**Aqeri**

**98213**

## 4U Router

Aqeri 98213 is a military router based on Cisco 2821-HSEC/9. It is equipped with Cisco modules for Ethernet, FXS, V35, ISDN etc. The unit has internal climate control for use in a wide temperature area and a temperature monitoring port for alarm output. Further, the router has an internal redundant AC power unit.

### Features:

- > 19" 4U semi-sealed chassis
- > Redundant 90-264 VAC-in power, 50-60 Hz
- > Temperature monitoring
- > Interfaces for Ethernet, FXS, V35, ISDN, console, etc.



**TECHNICAL SPECIFICATIONS**

**Router Board:** Cisco 2821-HSEC/9

**I/O Interfaces**

**10/100 Mbit:** x2  
**FXS:** x2  
**V.35:** x2  
**ISDN:** x1  
**Aux:** x1  
**Console:** x1  
**Temp Monitoring:** x1

**CONNECTORS**

**10/100 Mbit:** MIL 38999  
**FXS:** MIL 38999  
**V.35:** MIL 38999  
**ISDN:** MIL 38999  
**Aux:** DSUB  
**Console:** DSUB  
**Temp Monitoring:** MIL 38999  
**AC In:** MIL 38999

**PHYSICAL CHARACTERISTICS**

**Dimensions:** 440 x 177 x 504mm (WxHxD)  
**Weight:** 17 kg  
**Color:** Green, other optional

**ELECTRICAL SPECIFICATIONS**

**Power requirements:** 90-264 VAC, 50-60Hz (Internal Redundant Power Supply)  
**Power consumption:** 110W (excluding heaters)

**ENVIRONMENTAL CHARACTERISTICS****Designed to fulfill**

**(Other standards on request):** MIL-STD-461E  
MIL-STD-810G  
European CE

**TEMPEST SDIP-27 Level A, B, C:** Option  
**Temperature Operating:** -20°C to +55°C  
**Vibration Operating:** 20-2000Hz 0,04g rms  
**Shock Operating:** 40g, 6ms, ½ sine wave  
**Humidity:** 5% to 95% non condensing  
**Altitude Operating:** 3000m

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DEFENSE

# Aqeri

# 81022

## Rugged micro Computer

Aqeri 81022 is a Rugged micro Computer in a very small form factor made for space critical applications. The compact rugged computer is suitable for all kind of harsh military environments and is optimal for instance in combat vehicles, helicopters and UAVs.

Aqeri 81022 is so small it fits in just one hand! It doesn't compromise with power though, it comes with the 5th generation of Intel® i7 processor, Solid State drive and up to 8 GB memory.

Aqeri 81022 is fanless and as a standard the Aqeri field proven ASCC functions (Aqeri Supervisor and Climate Control) is implemented. The chassis is fully sealed for protection against dust and corrosive elements. Aqeri 81022 is designed to meet military standards such as MIL-STD-461E, MIL-STD-1275D and MIL-STD-810G.

### Features:

- > Aqeri Micro Family Computer
- > Very small form factor for space critical applications
- > 5th generation Intel® Core i7 processor
- > Fanless



Front



Back

#### TECHNICAL SPECIFICATIONS

Processor:	Intel i7-5650U 2.2 Ghz up to 3.2Ghz
Memory:	Up to 8Gb
Operating system:	Windows Linux
Storage:	Solid State (2.5" and/or MSATA)
Graphics:	Intel HD Graphics 6000
Watchdog Timer:	1min/s - 255min/s

#### I/O Interfaces

Gigabit Ethernet (Intel NIC):	x2
USB 2.0:	x2
USB 3.0:	x2
DVI-D:	x1
DC In:	x1

#### CONNECTORS

Gigabit Ethernet (Intel NIC):	AMC
USB 2.0:	AMC
USB 3.0:	AMC
DVI-D:	AMC
DC In:	MS3106F 10SL-3S

#### PHYSICAL CHARACTERISTICS

Dimensions:	140 x 55 x 185mm (WxHxD)
Weight:	2kg
Color:	Any

#### ELECTRICAL SPECIFICATIONS

Power requirements:	12-24VDC (9-36VDC)
Power consumption:	20W

#### ENVIRONMENTAL CHARACTERISTICS

Designed to fulfill	
(Other standards on request):	MIL-STD-461E MIL-STD-1275D MIL-STD-810G European CE
IP Protection:	IP65
Temperature Operating:	-20°C to +55°C
Vibration Operating:	Method 514.5 Army Vehicle
Shock Operating:	40g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	4572m / 15000ft

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# Aqeri 85001

## Rugged mini NAS

The Aqeri 85001 NAS is a powerful yet easy-to-use network storage center for backup, synchronization and remote access. Powered by an advanced ARM® Cortex® A9 dual-core processor.

The Aqeri 85001 NAS comes in a small form factor chassis ideal for space critical environments such as installation in vehicles. It can be mounted in a 19" rack single or together in pairs as well as stand alone or on a wall.

The Aqeri 85001 delivers high performance as a ruggedized NAS for harsh environments.

### Features:

- > Powerful network storage center for backup, synchronization and remote access
- > Small form factor, half 19", for space critical environments
- > Mounting: Stand alone, 19" rack single or together in pairs, wall mount
- > For use in harsh environments



*Aqeri mini-series stacked for rack mounting together in pairs*



*Aqeri 85001 Rugged mini NAS*

## TECHNICAL SPECIFICATIONS

CPU:	Freescape™ ARM®v7 Cortex®-A9 dual-core 1.2GHz processor
DRAM:	512 MB
Flash memory:	512 MB
Hard Disk Tray:	Up to 4x SSD

I/O Interfaces	
10/100/1000 Mbit:	x2
USB:	x2
DC In:	x1

CONNECTORS	
10/100/1000 Mbit:	AMC
USB:	AMC
DC In (Option):	MS3102E10SL-3P

PHYSICAL CHARACTERISTICS	
Dimensions:	220 x 142 x 300mm (WxHxD)
Weight:	4.9 kg
Color:	Green, other optional

ELECTRICAL SPECIFICATIONS	
Power requirements:	9-36VDC Nominal 12VDC and 24VDC
Power consumption:	TBD

ENVIRONMENTAL CHARACTERISTICS	
Designed to fulfill	
(Other standards on request):	MIL-STD-461E MIL-STD-810G MIL-STD-1275D European CE

IP Protection:	66
Temperature Operating:	-20°C to +55°C
Vibration Operating:	Method 514.5
Shock Operating:	40g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	4572m / 15000ft

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DEFENSE

# Aqeri

# 86101

## Rugged mini Router

The Aqeri 86101 Cisco based WAN VPN Router offers Dual Gigabit Ethernet WAN ports for load balancing and performance continuity. It has a built-in 4-port Gigabit Ethernet switch as well as a strong security with proven stateful packet inspection (SPI) firewall and hardware encryption.

The Aqeri Router has high-capacity, high-performance, SSL, IP Security (IPsec) and VPN capabilities. It comes with intuitive, browser-based device manager and setup wizards. USB ports provides the ability to use 3G and 4G modems for broadband failover.

The Aqeri 86101 comes in a small form factor chassis ideal for space critical environments such as installation in vehicles. This is a mini Router ideal for harsh environments.

### Features:

- > Cisco based WAN VPN mini Router
- > Dual Gigabit Ethernet WAN ports
- > Built-in 4-port Gigabit Ethernet switch
- > Small form factor, Half 19", for space critical environments
- > Mounting: Stand alone, 19" rack single or together in pairs, wall mount
- > For use in harsh environments



*Aqeri 86101 Rugged mini Router*



*Aqeri mini-series stacked for rack mounting together in pairs*

**TECHNICAL SPECIFICATIONS**

QoS:	Rate control or priority
Web user interface:	Browser-based device manager (HTTP/HTTPS)
SSL VPN:	10 SSL VPN tunnels for remote client access
Encryption:	Data Encryption Standard (DES) Triple Data Encryption Standard (3DES) Advanced Encryption Standard (AES) encryption: AES-128, AES-192, AES-256

**I/O Interfaces**

10/100/1000 Mbit Switch Ports:	x3
10/100/1000 DMZ/WAN:	x1
10/100/1000 WAN:	x1
USB:	x2
DC In:	x1

**CONNECTORS**

10/100/1000 Mbit:	AMC
10/100/1000 DMZ/WAN:	AMC
10/100/1000 WAN:	AMC
USB:	AMC
DC In:	MS3102E10SL-3P

**PHYSICAL CHARACTERISTICS**

Dimensions:	220 x 66 x 300mm (WxHxD)
Weight:	2.7 kg
Color:	Green, other optional

**ELECTRICAL SPECIFICATIONS**

Power requirements:	9-36VDC Nominal 12VDC and 24VDC
Power consumption:	TBD

**ENVIRONMENTAL CHARACTERISTICS**

Designed to fulfill	
(Other standards on request):	MIL-STD-461E MIL-STD-810G MIL-STD-1275D European CE

IP Protection:	66
Temperature Operating:	-20°C to +55°C
Vibration Operating:	Method 514.5
Shock Operating:	40g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	4572m / 15000ft

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# Aqeri 86102

## Rugged mini 4G Router

The Aqeri 86102 4G Router allows you to access and share your 4G LTE or 3G mobile broadband connections. Once connected, you can transfer data, stream media, and send SMS messages. The DWR-921 utilises dual-active firewalls (SPI and NAT) to prevent potential unwanted intrusions. WPA/WPA2 wireless encryption keeps your wireless network secure.

The Aqeri 86102 4G Router comes in a small form factor chassis ideal for space critical environments such as installation in vehicles. It can be mounted in a 19" rack single or together in pairs as well as stand alone or on a wall. This is a mini Router ideal for harsh environments.

### Features:

- > Ideal for transferring data, stream media and SMS messages
- > Small form factor, half 19", for space critical environments
- > Mounting: Stand alone, 19" rack single or together in pairs, wall mount
- > For use in harsh environments



*Aqeri mini-series stacked for rack mounting together in pairs*



*Aqeri 86102 Rugged mini 4G Router*



## TECHNICAL SPECIFICATIONS

<b>Data rates:</b>	Up to 150 Mbps with 802.11n clients LTE Uplink: Up to 50 Mbps LTE Downlink: Up to 100 Mbps
<b>Standards:</b>	802.11n, compatible with 802.11g/b, 802.3 802.3u
<b>UMTS/HSDPA/HSUPA band:</b>	900/2100 MHz Power Class 3
<b>LTE band:</b>	900/1800/2600/800 MHz
<b>Wireless security:</b>	64/128-bit WEP (Wired Equivalent Privacy) WPA & WPA2 (Wi-Fi Protected Access)
<b>Firewall:</b>	Network Address Translation (NAT) Stateful Packet Inspection (SPI)
<b>VPN:</b>	L2TP/PPTP/IPSEC VPN pass-through
<b>I/O Interfaces</b>	
<b>10/100 Mbit Switch Ports:</b>	x4
<b>10/100 WAN:</b>	x1
<b>DC In:</b>	x1
<b>CONNECTORS</b>	
<b>10/100 Mbit Switch Ports:</b>	AMC
<b>10/100 WAN:</b>	AMC
<b>DC In:</b>	MS3102E10SL-3P
<b>PHYSICAL CHARACTERISTICS</b>	
<b>Dimensions:</b>	220 x 66 x 300mm (WxHxD)
<b>Weight:</b>	2.6 kg
<b>Color:</b>	Green, other optional
<b>ELECTRICAL SPECIFICATIONS</b>	
<b>Power requirements:</b>	9-36VDC Nominal 12VDC and 24VDC
<b>Power consumption:</b>	TBD
<b>ENVIRONMENTAL CHARACTERISTICS</b>	
<b>Designed to fulfill</b>	
<b>(Other standards on request):</b>	MIL-STD-461E MIL-STD-810G MIL-STD-1275D European CE
<b>IP Protection:</b>	66
<b>Temperature Operating:</b>	-20°C to +55°C
<b>Vibration Operating:</b>	Method 514.5
<b>Shock Operating:</b>	40g, 11ms, ½ sine wave
<b>Humidity:</b>	5% to 95% non condensing
<b>Altitude Operating:</b>	4572m / 15000ft

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# Aqeri 86202

## Rugged mini Switch

The Aqeri 86202 is a rugged 1,5U, half 19" Cisco-based military 10/100/1000 Mbit Ethernet Switch that is powered by AC or DC. An internal heating and climate control system makes the unit usable in extremely low temperature environments.

The chassis is fully sealed for protection against dust and corrosive elements. A fully aluminum construction stands for low radiation and high noise immunity. The rugged design gives protection against shock and vibration.

### Features:

- > Cisco 2960G-8T-L switch board
- > Small form factor, Half 19"
- > Rugged design gives protection against shock and vibration



**TECHNICAL SPECIFICATIONS**

Switch board: Cisco 2960G-8TC-L

**I/O Interfaces**

10/100/1000 Mbit: x8

Console: x1

DC In or AC In: x1

**CONNECTORS**

Console: AMC

10/100/1000 Mbit: AMC

AC In (option): MIL38999

DC In (option): MIL38999

**PHYSICAL CHARACTERISTICS**

Dimensions: 220 x 65,8 x 350mm (WxHxD)

Weight: 2,5 kg

Color: Green, other optional

**ELECTRICAL SPECIFICATIONS**

Power requirements: 90-264 VAC, 50-60Hz / 9-36VDC

Power consumption: 30W (excluding heaters)

**ENVIRONMENTAL CHARACTERISTICS**

Designed to fulfill

(Other standards on request): MIL-STD-461E

MIL-STD-810G

European CE

Temperature Operating: -20°C to +55°C

Vibration Operating: 10-500Hz 1,04g rms

Shock Operating: 15g, 11ms, ½ sine wave

Humidity: 5% to 95% non condensing

Altitude Operating: 3000m

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# Aqeri

## 86301

## Rugged mini VoIP

The Aqeri 86301 is a rugged compact fanless Voice over IP (VoIP) for harsh environments. The VoIP is a Gateway-Router that supports up to four FXO or FXS connections.

The VoIP is designed with a wide input voltage range which makes the unit usable in vehicles. An internal climate control system makes the unit usable in extremely low and high temperature environments.

The chassis is fully sealed for protection against dust and corrosive elements. The full aluminum design stands for low radiation and high noise immunity.

### Features:

- > Gateway-Router that supports up to four FXO or FXS connections.
- > Small form factor, Half 19"
- > Rugged design gives protection against shock and vibration



## TECHNICAL SPECIFICATIONS

### I/O Interfaces

10/100 Mbit:	x1
100 Mbit Fiber (MM):	x1
Console:	x1
DC In:	x1
FXO or FXS:	x4

### CONNECTORS

10/100 Mbit:	RJ45
100 Mbit Fiber (MM):	SC
Console:	DB9
DC In:	97B-3100A10SL-3P
FXO or FXS:	RJ11 (in RJ45 connectors)

### PHYSICAL CHARACTERISTICS

Dimensions:	220 x 65,8 x 300mm (WxHxD)
Weight:	2,5 kg
Color:	Green, other optional

### ELECTRICAL SPECIFICATIONS

Power requirements:	9-36VDC
Power consumption:	30W (excluding heaters)

### ENVIRONMENTAL CHARACTERISTICS

#### Designed to fulfill

(Other standards on request):	MIL-STD-461E MIL-STD-810G European CE
Temperature Operating:	-20°C to +55°C
Vibration Operating:	10-500Hz 1,04g rms
Shock Operating:	10g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	3000m

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# Aqeri 86302

## Rugged mini VoIP

The Aqeri 86302 VoIP Gateway Router combines IP routing, VPN/Security, and Quality of Service for up to 8 transparent voice and FAX calls over any IP or PSTN network.

The Aqeri 86302 VoIP comes in a small form factor chassis ideal for space critical environments such as installation in vehicles. It can be mounted in a 19" rack single or together in pairs as well as stand alone or on a wall. This is a mini VoIP Gateway Router ideal for harsh environments.

### Features:

- > Up to 8 analog ports
- > Quality of Service VoIP
- > Advanced Local Call Switching
- > Complete SIP and T.38 support
- > Easy Management & Provisioning
- > Small form factor, half 19", for space critical environments
- > Mounting: Stand alone, 19" rack single or together in pairs, wall mount
- > For use in harsh environments



*Aqeri mini-series stacked for rack mounting together in pairs*



*Aqeri 86302 Rugged mini VoIP*

## TECHNICAL SPECIFICATIONS

Protocol:	SIP and H.323
QoS:	Support for mixed voice and data traffic
Management:	Web-based, SNMP, CLI

### I/O Interfaces

10/100 Mbit Switch Ports:	x2
FXS:	x4
FXO:	x4
DC In:	x1

### CONNECTORS

10/100 Mbit Switch Ports:	AMC
FXS:	AMC
FXO:	AMC
Console:	AMC
DC In:	MS3102E10SL-3P

### PHYSICAL CHARACTERISTICS

Dimensions:	220 x 66 x 300mm (WxHxD)
Weight:	2.7 kg
Color:	Green, other optional

### ELECTRICAL SPECIFICATIONS

Power requirements:	9-36VDC Nominal 12VDC and 24VDC
Power consumption:	TBD

### ENVIRONMENTAL CHARACTERISTICS

#### Designed to fulfill

(Other standards on request):	MIL-STD-461E
	MIL-STD-810G
	MIL-STD-1275D
	European CE

IP Protection:	66
Temperature Operating:	-20°C to +55°C
Vibration Operating:	Method 514.5
Shock Operating:	40g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	4572m / 15000ft

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# Aqeri 86303

## Rugged mini KVM

Aqeri 86303 is a 4 port rugged KVM switch able to remotely control up to 4 computers from one operator station. Switching focus between attached computers are made by keyboard combinations. Every channel is equipped with a LED for easy identifying active channel. Aqeri 86303 is powered by USB from attached computer.

### Features:

- > Small form factor, Half 19"
- > Rugged design gives protection against shock and vibration



## TECHNICAL SPECIFICATIONS

## I/O Interfaces:

Console

USB Keyboard and Mouse: x1

VGA out: x1

## Channel 1

USB Keyboard and Mouse: x1

VGA in: x1

## Channel 2

USB Keyboard and Mouse: x1

VGA in: x1

## Channel 3

USB Keyboard and Mouse: x1

VGA in: x1

## Channel 4

USB Keyboard and Mouse: x1

VGA in: x1

## CONNECTORS

Console: AMC

Channel 1: AMC

Channel 2: AMC

Channel 3: AMC

Channel 4: AMC

## PHYSICAL CHARACTERISTICS

Dimensions: 220 x 65 x 300mm (WxHxD)

Weight: 1,6 kg

Color: Green, other optional

## ELECTRICAL SPECIFICATIONS

Power requirements: Powered by USB from attached computer

Power consumption: 2.5W

## ENVIRONMENTAL CHARACTERISTICS

Designed to fulfill

(Other standards on request): MIL-STD-461E

MIL-STD-810G

European CE

Temperature Operating: -20°C to +55°C

Vibration Operating: 10-500Hz 1,04g rms

Shock Operating: 40g, 11ms, 1/2 sine wave

Humidity: 5% to 95% non condensing

Altitude Operating: 3000m

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# Aqeri 88001

## Rugged mini Video Matrix

The Aqeri 88001 Rugged Video Matrix Switch allows video from 2 computers to be routed to 4 monitors and projectors. Ideal for presentations and applications where information from multiple computers is being delivered to multiple destinations.

The Aqeri 88001 Video Matrix comes in a small form factor chassis ideal for space critical environments such as installation in vehicles. It can be mounted in a 19" rack single or together in pairs as well as stand alone or on a wall. This is a mini Video Matrix ideal for harsh environments.

### Features:

- > Allows video from 2 computers to be routed to 4 monitors and projectors
- > Small form factor, half 19", for space critical environments
- > Mounting: Stand alone, 19" rack single or together in pairs, wall mount
- > For use in harsh environments



*Aqeri 88001 Rugged mini Video Matrix*



*Aqeri mini-series stacked for rack mounting together in pairs*

**TECHNICAL SPECIFICATIONS**

<b>Video Input:</b>	Impedance 75 $\Omega$ Max Distance 1.8 m
<b>Video Output:</b>	Impedance 75 $\Omega$ Video Max Bandwidth 200 MHz

**I/O Interfaces**

<b>VGA in:</b>	x2
<b>VGA out:</b>	x4
<b>DC In:</b>	x1

**CONNECTORS**

<b>VGA in:</b>	AMC
<b>VGA out:</b>	AMC
<b>DC In:</b>	MS3102E10SL-3P

**PHYSICAL CHARACTERISTICS**

<b>Dimensions:</b>	220 x 66 x 300mm (WxHxD)
<b>Weight:</b>	2.45 kg
<b>Color:</b>	Green, other optional

**ELECTRICAL SPECIFICATIONS**

<b>Power requirements:</b>	9-36VDC Nominal 12VDC and 24VDC
<b>Power consumption:</b>	TBD

**ENVIRONMENTAL CHARACTERISTICS**

<b>Designed to fulfill</b> <b>(Other standards on request):</b>	MIL-STD-461E MIL-STD-810G MIL-STD-1275D European CE
<b>IP Protection:</b>	66
<b>Temperature Operating:</b>	-20°C to +55°C
<b>Vibration Operating:</b>	Method 514.5
<b>Shock Operating:</b>	40g, 11ms, ½ sine wave
<b>Humidity:</b>	5% to 95% non condensing
<b>Altitude Operating:</b>	4572m / 15000ft

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# Aqeri 89001

## Rugged mini PDU

Aqeri 89001 is a rugged compact fan-less Power Distribution Unit (PDU) for harsh environments. The PDU has up to five distribution channels. An internal climate control system makes the unit usable in extremely low and high temperature environments.

The chassis is fully sealed for protection against dust and corrosive elements. The full aluminum design stands for low radiation and high noise immunity.

### Features:

- > PDU with up to five distribution channels
- > Small form factor, Half 19"
- > Rugged design gives protection against shock and vibration



**TECHNICAL SPECIFICATIONS****I/O Interfaces**

DC In:	x2
DC Out:	x5

**CONNECTORS**

DC In:	97B-3100A10SL-3P
DC Out:	97B-3100A10SL-3P

**PHYSICAL CHARACTERISTICS**

Dimensions:	220 x 65,8 x 300mm (WxHxD)
Weight:	2,5 kg
Color:	Green, other optional

**ELECTRICAL SPECIFICATIONS**

Power requirements:	18-36VDC
Power outlet:	max 480W

**ENVIRONMENTAL CHARACTERISTICS****Designed to fulfill**

(Other standards on request):	MIL-STD-461E
	MIL-STD-810G
	European CE

Temperature Operating:	-20°C to +55°C
Vibration Operating:	10-500Hz 1,04g rms
Shock Operating:	40g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	3000m

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Designed to be rugged from ground up.

## X500



## Fully Rugged Notebook

Getac X500 is the first rugged and *fully equipped standard military grade* commercially available notebook. For the first time, a customized military grade I/O interface is configured into standard specifications, enabling an I/O interface that fully complies with military standards. This capability greatly reduces the long period of time usually required by complex customization and realizes the feasibility of configuration of customized military equipment into standard specifications.

## B300



## Fully Rugged Notebook

The B300 is a hard-as-nails road warrior designed to be productive and worry-free mobile computing, and it is fully customizable. It is MIL-STD-810G certified and IP65 certified, boasting: a magnesium alloy case, a shockprotected HDD, vibration and shock resistance, and sealed I/O caps and doors to prevent damage from solid particles and moisture. Equipped with low voltage Intel® Core™ i7-4600M vPro™ processor, B300 offers long battery life up to 15 hours for all day work.

## V110



## Fully Rugged Convertible

The breakthrough design of the Getac V110 rugged convertible enables the computer to be amazingly strong while also being unbelievably light. It truly is a revolution in rugged computing. At 1.98KG and 34mm thin, it's 27% lighter and 30% thinner than the previous generation. The V110 features a large 11.6" HD display that utilizes QuadraClear® technology for incredible clarity both indoors and outside in direct sunlight. The 11.6" widescreen display is ideally suited providing plenty of real estate to run Windows and your apps on.



## F110



## Fully Rugged Tablet 11,6"

The F110 is a true revolution in rugged tablet computing. The F110 combines powerful 4<sup>th</sup> generation Intel® Core™ Processors, the latest wireless and the large 11.6" widescreen display with a thin and light design that re-defines rugged mobility.

Designed to be about the size of a typical piece of paper, the new F110 rugged tablet breaks new ground with its large 11.6" display. Most rugged tablets choose either a large display or a compact design. We chose both.

## T800



## Fully Rugged Tablet 8,1"

8,1 inches is the size of the display on the new compact T800 rugged tablet. Built for today's mobile workforce, the new tablet features the latest wireless technology and unique SnapBack add-ons and runs Windows 8.1 Pro. The T800 is designed to be the perfect combination of a compact rugged tablet without sacrificing screen size.

## Z710



## Fully Rugged Tablet 7,0"

Compact and powerful, the Android-powered Getac Z710 rugged tablet allows you the flexibility to work in nearly any environment. Perfect for data collection, data entry, PDF viewing, GPS tracking and much more, the Z710 has you covered. Now available with Android 4.1 OS.

Built to house a brilliant 7" display, the Z710 is small enough to hold with just one hand yet big enough to help you get your job done. Apps have changed the way we access and enter data remotely. Android OS makes it easy to build a custom app or use one of the many apps that can help you get your job done quickly.

We reserve the right to supply individual markets on a case-by-case basis and the right to change the information of this document without further notice. 150820

DEFENSE

# Aqeri 92400

## Rugged Display

The 92400 is a ruggedized military 40" wide screen display made for use in harsh environments. Aqeri 92400 features VGA and/or DVI input and the display can be wall or panel mounted and used free standing.

### Features:

- > Compact 40" Wide Screen
- > Mobile and stationary applications Air, Sea and Land
- > High contrast and brightness
- > 18-36 VDC (AC as option)



TECHNICAL DATA

TECHNICAL SPECIFICATIONS

Display:	40"
Resolution:	1920x1080 (16:9)
Brightness:	700 cd/m <sup>2</sup>
Colors:	16.7 Million
Viewing Angle:	(Horizontal / Vertical): 178° / 178°
Contrast:	3500:1

I/O Interfaces

VGA:	x1
DVI:	x1

CONNECTORS

VGA:	15 HDSUB
DVI:	DVI-D
DC In:	MS3106F 10SL-3S

PHYSICAL CHARACTERISTICS

Dimensions:	1075 x 609 x 82mm (WxHxD)
Weight:	26,5 kg
Color:	Black, other optional

ELECTRICAL SPECIFICATIONS

Power requirements:	24VDC (18-36VDC, safe start Min 21VDC, Max 33VDC)
Power consumption:	125W @24VDC

ENVIRONMENTAL CHARACTERISTICS

Designed to fulfill	
(Other standards on request):	MIL-STD-461E MIL-STD-1275 MIL-STD-810G European CE
Temperature Operating:	0°C to +55°C (-20°C to +55°C as an option)
Vibration Operating:	10-500Hz 1,04g rms
Shock Operating:	15g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Shielding:	Front IP65
Altitude Operating:	3000m

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DEFENSE

# Aqeri 9115

## 15" LCD Display

Aqeri 9115 is a rugged 15" LCD TFT display for use in harsh environments. Its versatile mounting options make it suitable for as well 19" rack as freestanding installations. The case is fully sealed for protection against dust and corrosive elements. A fully aluminum construction stands for low radiation. The rugged design gives protection against shocks and vibration. An internal heating and climate control system makes the unit usable in extremely low temperature environments.

### Features:

- > 15" XGA 1024x768 TFT LCD
- > Brightness 400cd/m<sup>2</sup>
- > Displays up to 16,7 million colors
- > Options for rack, wall or table mount



# TECHNICAL DATA

## TECHNICAL SPECIFICATIONS

Display:	15"
Resolution:	1024x768
Brightness:	400 cd/m <sup>2</sup>
Colors:	16.7 Million
Viewing Angle:	Left/Right +/- 80°; Up/Down +/- 80°

## I/O Interfaces

VGA:	x1
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## CONNECTORS

VGA:	HD-DSUB
DC In:	MS3106F 10SL-3S

## PHYSICAL CHARACTERISTICS

Dimensions:	311 x 370 x 83mm (WxHxD)
Weight:	6 kg
Color:	Green, other optional

## ELECTRICAL SPECIFICATIONS

Power requirements:	28VDC (18-36VDC, safe start Min 21VDC, Max 33VDC)
Power consumption:	27W at 28VDC (excluding heaters)

## ENVIRONMENTAL CHARACTERISTICS

Designed to fulfill	
(Other standards on request):	MIL-STD-461E MIL-STD-1275B MIL-STD-810G European CE

TEMPEST SDIP-27 Level A, B, C:	Option
Temperature Operating:	-20°C to +55°C
Vibration Operating:	10-500Hz 1,04g rms
Shock Operating :	15g, 11ms, 1/2 sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	3000m

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DEFENSE

**Aqeri**

**9119**

## 19" LCD Display

Aqeri 9119 is a rugged 19" LCD display for use in harsh environments. Its versatile mounting options make it suitable for as well 19" rack as freestanding installations. The case is fully sealed for protection against dust and corrosive elements. A fully aluminum construction stands for low radiation. The rugged design gives protection against shocks and vibration. An internal heating and climate control system makes the unit usable in extremely low temperature environments.

### Features:

- > 19" XGA 1280x1024 TFT LCD
- > Brightness 500cd/m<sup>2</sup>
- > Displays up to 16,7 million colors
- > Options for rack, wall or table mount



**TECHNICAL SPECIFICATIONS**

Display:	19"
Resolution:	1280x1024
Brightness:	500 cd/m <sup>2</sup>
Colors:	16.7 Million
Viewing Angle:	Left/Right +/- 80°; Up/Down +/- 80°

**I/O Interfaces**

VGA:	x1
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**CONNECTORS**

VGA:	HD-DSUB
DC In:	MS3106F 10SL-3S

**PHYSICAL CHARACTERISTICS**

Dimensions:	400 x 440 x 120mm (WxHxD)
Weight:	12 kg
Color:	Green, other optional

**ELECTRICAL SPECIFICATIONS**

Power requirements:	28VDC (18-36VDC, safe start Min 21VDC, Max 33VDC)
Power consumption:	47W at 28VDC (excluding heaters)

**ENVIRONMENTAL CHARACTERISTICS**

Designed to fulfill	
(Other standards on request):	MIL-STD-461E MIL-STD-1275B MIL-STD-810G European CE

TEMPEST SDIP-27 Level A, B, C:	Option
Temperature Operating:	-20°C to +55°C
Vibration Operating:	10-500Hz 1,04g rms
Shock Operating:	15g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	3000m

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DEFENSE

**Aqeri**

**92190**

## 19" LCD Display

The Aqeri 92190 is a rugged 19" display for use in harsh environments. The chassis is fully sealed for protection against dust and corrosive elements. The full aluminum construction allows low radiation and high noise immunity (in accordance with MIL-STD 461 E/F). The internal heating and climate control system guaranties operations in extreme temperature environments.

### Features:

- > 19" 1280x1024 TFT LCD
- > Brightness 300cd/m<sup>2</sup>
- > Displays up to 16,7 million colors



#### TECHNICAL SPECIFICATIONS

Display:	19"
Resolution:	1280x1024
Brightness:	300 cd/m <sup>2</sup>
Colors:	16.7 Million
Viewing Angle:	Left/Right +/- 80°; Up/Down +/- 80°

#### I/O Interfaces

VGA:	x1
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#### CONNECTORS

VGA:	MS3114F14-19S
DC In:	MS3114A12-3PY

#### PHYSICAL CHARACTERISTICS

Dimensions:	440 x 400 x 80mm (WxHxD)
Weight:	8 kg
Color:	Green, other optional

#### ELECTRICAL SPECIFICATIONS

Power requirements:	28VDC (18-36VDC, safe start Min 21VDC, Max 33VDC)
Power consumption:	47W at 28VDC (excluding heaters)

#### ENVIRONMENTAL CHARACTERISTICS

Designed to fulfill	
(Other standards on request)	MIL-STD-461E MIL-STD-1275B MIL-STD-810G European CE Option
TEMPEST SDIP-27 Level A, B, C:	Option
Temperature Operating:	-20°C to +55°C
Vibration Operating:	10-500Hz 1,04g rms
Shock Operating:	15g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	3000m

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DEFENSE

# Aqeri 9219D

## Dual 19" LCD Display

Aqeri 9219D is designed to give maximum viewing possibilities and take up minimum of rackspace. It is rugged and fully sealed to survive harsh military environments.

### Features:

- > 19" XGA 1280 x 1024 TFT LCD
- > Brightness 250 cd/m<sup>2</sup>
- > Displays up to 16,7 million colors
- > Optional to mount hinge to the right or left side



#### TECHNICAL SPECIFICATIONS

Display:	2x 19"
Resolution:	1280x1024
Brightness:	250 cd/m <sup>2</sup>
Colors:	16.7 Million
Viewing Angle:	Left/Right +/- 80°; Up/Down +/- 80°

#### I/O Interfaces

VGA:	x2
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#### CONNECTORS

VGA:	HD-DSUB
DC In:	MS3106F 10SL-3S

#### PHYSICAL CHARACTERISTICS

Dimensions:	440 x 698 x 210mm (WxHxD)
Weight:	15 kg
Color:	Green, other optional

#### ELECTRICAL SPECIFICATIONS

Power requirements:	28VDC (18-36VDC, safe start Min 21VDC, Max 33VDC)
Power consumption:	94W at 28VDC (excluding heaters)

#### ENVIRONMENTAL CHARACTERISTICS

Designed to fulfill	
(Other standards on request):	MIL-STD-461E MIL-STD-1275B MIL-STD-810G European CE

TEMPEST SDIP-27 Level A, B, C:	Option
Temperature Operating:	-20°C to +55°C
Vibration Operating:	10-500Hz 1,04g rms
Shock Operating:	15g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	3000m

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DEFENSE

# Aqeri

# 92171

## Double 17" Display

The Aqeri 92171 is a rugged double 17" LCD display for use in harsh environments. A fully aluminum construction stands for low radiation. The rugged design gives protection against shocks and vibration. An internal heating and climate control system makes the unit usable in extremely low temperature environments.

### Features:

- > 2x17" SXGA 1280x1024 TFT LCD
- > Brightness 300cd/m2
- > Displays up to 16.7 million colors
- > Slim line



**TECHNICAL SPECIFICATIONS**

Display:	2x 17"
Resolution:	1280x1024
Brightness:	300 cd/m <sup>2</sup>
Colors:	16.7 Million
Viewing Angle:	Left/Right +/- 88°; Up/Down +/- 88°

**I/O Interfaces**

VGA:	x2
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**CONNECTORS**

VGA:	HD-DSUB
DC In:	MS3106F 10SL-3S

**PHYSICAL CHARACTERISTICS**

Dimensions:	840 x 330 x 57mm (WxHxD)
Weight:	8 kg
Color:	Grey, other optional

**ELECTRICAL SPECIFICATIONS**

Power requirements:	28VDC (18-36VDC, safe start Min 21VDC, Max 33VDC)
Power consumption:	50W at 28VDC (excluding heaters)

**ENVIRONMENTAL CHARACTERISTICS****Designed to fulfill**

(Other standards on request):	MIL-STD-461E
	MIL-STD-1275B
	MIL-STD-810G
	European CE

**TEMPEST SDIP-27, Level A, B, C:**

Option	Option
Temperature Operating:	-20°C to +55°C
Vibration Operating:	10-500Hz 1,04g rms
Shock Operating:	15g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	3000m

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DEFENSE

# Aqeri 92230

## 23" LCD Display

The 92230 is a ruggedized military 23" wide screen display made for use in harsh environments. It is a flexible device that can be used for mobile and stationary applications. In the back it features VGA (DB15 HD) and DC in (3 pin military connector, cannon type). The monitor is made for wall mount, console mount or freestanding version.

### Features:

- > Compact 23" Wide Screen
- > Mobile and stationary applications
- > 18-36VDC input



#### TECHNICAL SPECIFICATIONS

Display:	23" Wide
Resolution:	1920x1080
Brightness:	300 cd/m <sup>2</sup>
Colors:	16.7 Million
Viewing Angle:	Left/Right +/- 80°; Up/Down +/- 80°

#### I/O Interfaces

VGA:	x1
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#### CONNECTORS

VGA:	HD-DSUB
DC In:	97B-3100A-10SL-3P

#### PHYSICAL CHARACTERISTICS

Dimensions:	584 x 380 x 60mm (WxHxD)
Weight:	8 kg
Color:	Green, other optional

#### ELECTRICAL SPECIFICATIONS

Power requirements:	28VDC (18-36VDC, safe start Min 21VDC, Max 33VDC)
Power consumption:	50W at 28VDC (excluding heaters)

#### ENVIRONMENTAL CHARACTERISTICS

Designed to fulfill	
(Other standards on request):	MIL-STD-461E MIL-STD-1275B MIL-STD-810G European CE Option
TEMPEST SDIP-27 Level A, B, C:	
Temperature Operating:	-20°C to +55°C
Vibration Operating:	10-500Hz 1,04g rms
Shock Operating:	15g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	3000m

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## 10,4" LCD Display

### Features:

- 



**TECHNICAL SPECIFICATIONS**

Display:	10,4"
Resolution:	1024x768
Brightness:	400 cd/m <sup>2</sup>
Colors:	16.7 Million
Viewing Angle:	Left/Right +/- 80°; Up/Down +/- 80°

**I/O Interfaces**

VGA:	x1
USB:	x1
RS422:	x1

**CONNECTORS**

VGA / RS422:	MIL 38999
USB:	MIL 38999
DC In:	MIL 38999

**PHYSICAL CHARACTERISTICS**

Dimensions:	260 x 240 x 55mm (WxHxD)
Weight:	3 kg
Color:	Black, other optional

**ELECTRICAL SPECIFICATIONS**

Power requirements:	9-36VDC
Power consumption:	15W at 28VDC (excluding heaters)

**ENVIRONMENTAL CHARACTERISTICS****Designed to fulfill**

(Other standards on request):	MIL-STD-461E
	MIL-STD-1275B
	MIL-STD-810G
	European CE

**TEMPEST SDIP-27 Level A, B, C:**

Option	
Temperature Operating:	-20°C to +55°C
Vibration Operating:	10-500Hz 1,04g rms
Shock Operating:	15g, 11ms, 1/2 sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	3000m

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DEFENSE

**Aqeri**

**9310**

## Rugged Keyboard

Aqeri 9310 is a rugged keyboard for use in harsh environments. The keyboard unit includes an 83 key keyboard and a pointing device. Occupying only 1 height unit when folded into the rack, it is suitable for space critical applications. The housing is fully sealed for protection against dust and corrosive elements. A fully aluminum construction stands for low radiation. The rugged design gives protection against shocks and vibration.

### Features:

- > 83-key keyboard with tactile keys
- > Integrated pointing device
- > PS/2 Interface



# TECHNICAL DATA

## TECHNICAL SPECIFICATIONS

Keyboard:	Keyboard fitted with 83 keys, integral numeric keypad and Windows function keys. Tactile silicone pad over PVC covered membrane.
Keyboard Layout:	Swedish, Finnish, French, German, English (US and UK), Spanish, Russian, Italian and other layouts upon request.
Pointing Device:	Microsoft PS/2 compatible finger-actuated computer pointing module with two buttons.

## I/O Interfaces

PS/2:	x1 (keyboard and mouse)
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## CONNECTORS

PS/2:	DSUB
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## PHYSICAL CHARACTERISTICS

Dimensions:	405 x 34 x 198mm (WxHxD)
Weight:	1.6 kg
Color:	Green, any other colour optional

## ELECTRICAL SPECIFICATIONS

Power requirements:	5VDC (from PS/2 interface)
Power consumption:	0,5W

## ENVIRONMENTAL CHARACTERISTICS

Designed to fulfill	
(Other standards on request):	MIL-STD-461E MIL-STD-1275B MIL-STD-810G European CE Option
TEMPEST SDIP-27 Level A, B, C:	
Temperature Operating:	-20°C to +55°C
Vibration Operating:	10-500Hz 1,04g rms
Shock Operating:	15g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	3000m

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DEFENSE

# Aqeri

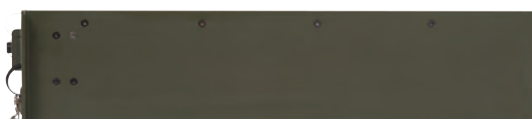
# 9315

## 2U Operators Terminal

Aqeri 9315 is a rugged rack mountable operators terminal for use in harsh environments. The unit includes a 15" LCD display, an 83 key keyboard and a pointing device. Occupying only 2 height units when folded into the rack, it is suitable for space critical applications. Both the display and the keyboard units are fully sealed for protection against dust and corrosive elements. A fully aluminum construction stands for low radiation. The rugged design gives protection against shocks and vibration. An internal heating and climate control system makes the unit usable in extremely low temperature environments.

### Features:

- > 15" XGA 1024x768 TFT LCD display
- > Brightness 400cd/m<sup>2</sup>
- > Displays up to 16,7 million colors
- > 83-key keyboard with tactile keys
- > Integrated pointing device serial interface
- > Options for rack, wall or table mount



Aqeri 9315 folded



# TECHNICAL DATA

## TECHNICAL SPECIFICATIONS

Display:	15"
Resolution:	1024x768
Brightness:	400 cd/m <sup>2</sup>
Colors:	16.7 Million
Viewing Angle:	Left/Right +/- 80°; Up/Down +/- 80°

Keyboard:	Keyboard fitted with 83 keys, integral numeric keypad and Windows function keys. Tactile silicone pad over PVC covered membrane.
Keyboard layout	Swedish, Finnish, French, German, English (US and UK), Spanish, Russian, Italian and other layouts upon request
Pointing device:	USB compatible finger-actuated computer pointing module with two buttons

## I/O Interfaces

VGA:	x1
Keyboard:	x1
Mouse:	x1

## CONNECTORS

VGA:	HD-DSUB
Keyboard:	DIN-5
Mouse:	DSUB
DC In:	MS3106F 10SL-3S

## PHYSICAL CHARACTERISTICS

Dimensions:	440 x 88 x 400mm (WxHxD)
Weight:	9 kg
Color:	Green, other optional

## ELECTRICAL SPECIFICATIONS

Power requirements:	28VDC (18-36VDC, safe start Min 21VDC, Max 33VDC)
Power consumption:	40W at 28VDC (excluding heaters)

## ENVIRONMENTAL CHARACTERISTICS

Designed to fulfill	
(Other standards on request):	MIL-STD-461E MIL-STD-1275B MIL-STD-810G European CE
TEMPEST SDIP-27 Level A, B, C:	Option
Temperature Operating:	-20°C to +55°C
Vibration Operating:	10-500Hz 1,04g rms
Shock Operating:	15g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	3000m

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DEFENSE

# Aqeri

# 93101

## Freestanding/Rack USB Keyboard

The freestanding keyboard, Aqeri 93101, is rugged and fully sealed to survive in harsh environments. The use of table space is minimized as the pointing device is integrated in to the unit.

### Features:

- > 83-key keyboard with tactile keys
- > Integrated pointing device
- > USB interface in DB-9 connector
- > Slides for rack mount



**TECHNICAL SPECIFICATIONS**

<b>Keyboard:</b>	Keyboard fitted with 83 keys, integral numeric keypad and Windows function keys. Tactile silicone pad over PVC covered membrane.
<b>Keyboard Layout:</b>	Swedish, Finnish, French, German, English (US and UK), Spanish, Russian, Italian and other layouts upon request.
<b>Pointing Device:</b>	Microsoft PS/2 compatible finger-actuated computer pointing module with two buttons.

**I/O Interfaces**

<b>USB:</b>	x1 (keyboard and mouse)
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**CONNECTORS**

<b>USB:</b>	DSUB
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**PHYSICAL CHARACTERISTICS**

<b>Dimensions:</b>	400 x 26 x 198mm (WxHxD)
<b>Weight:</b>	1.2 kg
<b>Color:</b>	Grey, any other colour optional

**ELECTRICAL SPECIFICATIONS**

<b>Power requirements:</b>	5VDC (from USB interface)
<b>Power consumption:</b>	0,5W

**ENVIRONMENTAL CHARACTERISTICS**

<b>Designed to fulfill</b>	
<b>(Other standards on request):</b>	MIL-STD-461E MIL-STD-1275B MIL-STD-810G European CE
<b>TEMPEST SDIP-27 Level A, B, C:</b>	Option
<b>Temperature Operating:</b>	-20°C to +55°C
<b>Vibration Operating:</b>	10-500Hz 1,04g rms
<b>Shock Operating:</b>	15g, 11ms, ½ sine wave
<b>Humidity:</b>	5% to 95% non condensing
<b>Altitude Operating:</b>	3000m

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DEFENSE

# Aqeri 93102

## Small footprint Keyboard

Aqeri 93102 freestanding mini keyboard is rugged and fully sealed to survive in harsh environments. The use of table space is minimized as the pointing device is integrated in to the unit.

### Features:

- > 83-key keyboard with tactile keys
- > Integrated pointing device
- > PS/2 interface in DB-9 connector
- > Small form factor



**TECHNICAL SPECIFICATIONS**

<b>Keyboard:</b>	Keyboard fitted with 83 keys, integral numeric keypad and Windows function keys. Tactile silicone pad over PVC covered membrane.
<b>Keyboard Layout:</b>	Swedish, Finnish, French, German, English (US and UK), Spanish, Russian, Italian and other layouts upon request.
<b>Pointing Device:</b>	Microsoft PS/2 compatible finger-actuated computer pointing module with two buttons.

**I/O Interfaces**

<b>PS/2:</b>	x1 (keyboard and mouse)
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**CONNECTORS**

<b>PS/2:</b>	DSUB
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**PHYSICAL CHARACTERISTICS**

<b>Dimensions:</b>	290 x 26 x 198mm (WxHxD)
<b>Weight:</b>	1.2 kg
<b>Color:</b>	Grey, any other colour optional

**ELECTRICAL SPECIFICATIONS**

<b>Power requirements:</b>	5VDC (from PS/2 interface)
<b>Power consumption:</b>	0,5W

**ENVIRONMENTAL CHARACTERISTICS**

<b>Designed to fulfill</b>	
<b>(Other standards on request):</b>	MIL-STD-461E MIL-STD-1275B MIL-STD-810G European CE Option
<b>TEMPEST SDIP-27 Level A, B, C:</b>	
<b>Temperature Operating:</b>	-20°C to +55°C
<b>Vibration Operating:</b>	10-500Hz 1,04g rms
<b>Shock Operating:</b>	15g, 11ms, ½ sine wave
<b>Humidity:</b>	5% to 95% non condensing
<b>Altitude Operating:</b>	3000m

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DEFENSE

**Aqeri**

**93103**

## Freestanding/Rack PS/2 Keyboard

Aqeri 93103 freestanding keyboard is rugged and fully sealed to survive in harsh environments. The use of table space is minimized as the pointing device is integrated in to the unit.

### Features:

- > 83-key keyboard with tactile keys
- > Integrated pointing device
- > PS/2 interface in DB-9 connector



**TECHNICAL SPECIFICATIONS**

**Keyboard:** Keyboard fitted with 83 keys, integral numeric keypad and Windows function keys. Tactile silicone pad over PVC covered membrane.

**Keyboard Layout:** Swedish, Finnish, French, German, English (US and UK), Spanish, Russian, Italian and other layouts upon request.

**Pointing Device:** Microsoft PS/2 compatible finger-actuated computer pointing module with two buttons.

**I/O Interfaces**

**PS/2:** x1 (keyboard and mouse)

**CONNECTORS**

**PS/2:** DSUB

**PHYSICAL CHARACTERISTICS**

**Dimensions:** 400 x 26 x 198mm (WxHxD)

**Weight:** 1.2 kg

**Color:** Grey, any other colour optional

**ELECTRICAL SPECIFICATIONS**

**Power requirements:** 5VDC (from PS/2 interface)

**Power consumption:** 0,5W

**ENVIRONMENTAL CHARACTERISTICS**

**Designed to fulfill**

**(Other standards on request):** MIL-STD-461E  
MIL-STD-1275B  
MIL-STD-810G  
European CE

**TEMPEST SDIP-27 Level A, B, C:** Option

**Temperature Operating:** -20°C to +55°C

**Vibration Operating:** 10-500Hz 1,04g rms

**Shock Operating:** 15g, 11ms, 1/2 sine wave

**Humidity:** 5% to 95% non condensing

**Altitude Operating:** 3000m

*We reserve the right to change the information of this document without further notice. 110831*

DEFENSE

# Aqeri 99100-01

## External Redundant Power Supply

Aqeri 99100-01 is a ruggedized external redundant power supply unit for use in harsh environments. The unit has both visual and audio alarm if one PSU fails. Input is 96-264 VAC and output is 24VDC. Max output is 480W.

### Features:

- > Audio and Visual alarm
- > Wide AC in range
- > 24VDC Output
- > MIL 38999 and MIL-DTL-5015 interface connectors
- > Overvoltage protection



Backside



# TECHNICAL DATA

## TECHNICAL SPECIFICATIONS

Alarm:	Visual and Audio
AC in rush current:	Cold start 40A at 230VAC
Setup, rise, hold up time:	1000ms, 80ms, 18ms at full load and 230VAC
Overload protection:	105% ~ 145% constant current limiting, auto-reco
Withstand voltage:	I/P-O/P:3KVAC, I/P-FG: 1,5KVAC, 1 minute

## I/O Interfaces

AC In:	x2
DC Out:	x1

## CONNECTORS

AC In:	MIL 38999
DC Out:	MIL-DTL-5015

## PHYSICAL CHARACTERISTICS

Dimensions:	240 x 135 x 400m (WxHxD)
Weight:	7,4 kg
Color:	Grey, optional any color

## ELECTRICAL SPECIFICATIONS

Power requirements:	90-264 VAC
Max Output:	480W

## ENVIRONMENTAL CHARACTERISTICS

Designed to fulfill	
(Other standards on request):	MIL-STD-461E MIL-STD-1275B MIL-STD-810G European CE Option
TEMPEST SDIP-27 Level A, B, C:	
Temperature Operating:	-20°C to +55°C
Vibration Operating:	10-500Hz 2g rms
Shock Operating:	10g, 11ms, ½ sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	3000m

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DEFENSE

# Aqeri 99101

## Power Distribution Unit

The Aqeri 99101 is a 19" rugged Power Distribution Unit for use in harsh environments. The unit can distribute up to six 24 VDC out á 10A. The unit is fully sealed for protection against dust and corrosive elements. The full aluminum construction allows for low radiation and high noise immunity (in accordance with MIL-STD-461E). The Aqeri 99101 is powered by 110-264 VAC, 50-60 Hz.

### Features:

- > Wide AC in range
- > 6x24VDC Output
- > Overvoltage protection



## TECHNICAL SPECIFICATIONS

### I/O Interfaces

AC In:	x1
DC Out:	x6

### CONNECTORS

AC In:	MS3106F-145-6S
DC Out:	MS3106F 10SL-3S

### PHYSICAL CHARACTERISTICS

Dimensions:	444 x 88 x 400m (WxHxD)
Weight:	10.5 kg
Color:	Grey, optional any colour

### ELECTRICAL SPECIFICATIONS

Power requirements:	110-264VAC 50-60Hz
Max Output:	6 x 24 VDC max 10A each or max total power 800W

### ENVIRONMENTAL CHARACTERISTICS

Designed to fulfill	
(Other standards on request):	MIL-STD-461E
	MIL-STD-810G
	European CE
TEMPEST SDIP-27 Level A, B, C:	Option
Temperature Operating:	-20°C to +55°C
Vibration Operating:	10-500Hz 1,04g rms
Shock Operating:	15g, 11ms, 1/2 sine wave
Humidity:	5% to 95% non condensing
Altitude Operating:	3000m

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## We make the impossible possible!

Aqeri develops, produces and sells tough computers and communication equipment that can withstand the brute force of the most extreme conditions.

With more than 25 years of global experience from both defense and industrial sectors, our services and equipment surpass worst case scenarios - as standard.

Aqeri is a public company, listed on the First North which is run by NASDAQ OMX Nordic. We are based in Stockholm, Sweden, and complemented with global sales and support partners.



[www.aqeri.com](http://www.aqeri.com)