

# 19"/2 Appliance Server CS9122



## Appliance Server in a 19inch2 form factor

The 19"/2 Appliance Server packs high-performance computing power into a frame up to 75% smaller than standard 19" rugged servers. This significantly reduces the server's weight, energy consumption and heat production.

### Built to take a beating

The Server is built to withstand the harshest conditions over the long haul. It features aluminium casing, rugged MIL connectors for easy integration and will operate down to -40 C.

### Guaranteed performance

Our products always come with a lifetime support to ensure your equipment maintains peak performance for many missions to come. We also serve units and stock spare parts for 5 years end-of-life.

### Concept

A MilDef concept describes a possible implementation of customer specific requirements. Realization might involve NRE cost.

### Features

- Up to 32 GB RAM ECC
- Intel Core i7-6822EQ processor
- Support for virtualization
- WiFi (dual SSID) and 4G/NET1 support
- Passively cooled

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## Connector Interfaces

<b>GSM 3G 4G</b> (front)	• 1x 4G
<b>DC IN</b> (back)	• 1x Power
<b>CONSOLE</b> (front)	• 1x RS232 Console
<b>ETH2-ETH7</b> (front)	6 connectors which each has: <ul style="list-style-type: none"> <li>• 1x ETH</li> </ul>
<b>ETH8, ETH9</b> (back)	2 connectors which each has: <ul style="list-style-type: none"> <li>• 1x ETH</li> </ul>
<b>ETH0 PoE+, ETH1 PoE+</b> (front)	2 connectors which each has: <ul style="list-style-type: none"> <li>• 1x ETH</li> </ul>
<b>HDMI</b> (back)	• 1x HDMI
<b>SERVICE</b> (back)	• 1x RS232 Service
<b>USB3/4</b> (back)	• 2x USB
<b>USB1/2</b> (front)	• 2x USB 3.0
<b>VGA</b> (back)	• 1x VGA
<b>WIFI</b> (front)	• 1x Wifi

## Other Interfaces

1x Sim Card (Mini-SIM) (back)

1x System Button (front)

## Technical Specification

<b>Blanking</b>	Double-pressing the System button
<b>Computer primary memory</b>	Up to 32 GB RAM ECC
<b>Computer Processor</b>	Intel Core i7-6822EQ processor
<b>LAN</b>	1000BASE-T standard
<b>Operating system</b>	CentOS 7 and later
<b>POE power delivery</b>	25W in total (each port can handle 25W)
<b>Support for Virtualization</b>	Support for virtualization
<b>Wireless</b>	WiFi (dual SSID) and 4G/NET1 support
<b>MIL-STD-1275D</b>	5.3.2.2 5.3.2.3 5.3.2.4
<b>Polarity protection</b>	Protected against polarization failure on the power input in the voltage range of normal operation.
<b>Power input</b>	12-32 VDC
<b>Coating and color</b>	Dupont AE0305-6603120 (RAL6031)
<b>Cooling</b>	Passively cooled
<b>Dimensions Width and Height</b>	220x44mm (8,66x1,74 inch) (WxH)
<b>Earth point</b>	M6 12mm
<b>Rack Mounting depth</b>	400mm (17,4 inch)

<b>Surface treatment chassis</b>	Chromit-Al
<b>Weight</b>	4.1 kg
<b>MTBF</b>	Greater than 25000 h

## Environmental Specification (\*designed to meet)

<b>Functional Shock - Operating*</b>	MIL-STD-810G, Method 516.6, Procedure I - Functional Shock. Table 516.6-II, Terminal peak sawtooth pulse, Ground equipment 40g 11 ms
<b>High temperature - Operating*</b>	MIL-STD-810G, Method 501.5, Procedure II - Operation 55C (131F)
<b>High temperature - Operating*</b>	MIL-STD-810G, method 501.5, Procedure II - Operation 60 °C (140 °F)
<b>High temperature - Storage*</b>	MIL-STD-810G, Method 501.5, Procedure I - Storage 71 °C (160 °F)
<b>Humidity*</b>	MIL-STD-810G, Method 507.5, Procedure II - Aggravated 95 ± 4 %rh Ten 24-hour cycles
<b>IP Class (Solid Particle Protection)*</b>	IP Class 6X
<b>IP Class (Water)*</b>	IP Class X5
<b>Low air pressure - Rapid Decompression*</b>	MIL-STD-810G, Method 500.5, Procedure III - Rapid Decompression 75.2kPa, corresponding to 2,438m (8.000 ft) 17kPa, corresponding to 12192m (40.000 ft)
<b>Low air pressure - Operating*</b>	MIL-STD-810G, method 500.5, Procedure II - Operation/Air Carriage 4572m (15.000 ft)
<b>Low temperature - Operating*</b>	MIL-STD-810G, method 502.5, Procedure II - Operation -40 °C (-40 °F)
<b>Low temperature - Storage*</b>	MIL-STD-810G, method 502.5, Procedure I - Storage -40 C (-40 °F)
<b>Noise level*</b>	Maximum noise level of 40dB SPL A-weighting @ 1m (3,3 ft) distance
<b>Salt fog*</b>	MIL-STD-810G Method: 509.5 5% +- 1% (by weight) Two cycles, 24h wet + 24h dry /cycle
<b>Temperature Shock - Operating*</b>	MIL-STD 810G, method 503.5 procedures I - C, - Multi-cycle shocks from constant extreme temperature 55 °C (131 °F) - 40 °C (-40 °F)

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**Transit drop, in shipping package\*** MIL-STD-810G, method 516.6, Procedure IV - Transit Drop. Table 516.6-VI, Transit drop test, < 45.4 kg (100 lbs), < 91 cm (36 inch), Manpacked or man-portable

**Vibration - Helicopter\*** MIL-STD-810G. Method 514.6, Procedure I - General vibration, Category 14 - Rotary wing aircraft - helicopter

**Vibration - Loose Cargo\*** MIL-STD-810G. Method 514.6, Procedure II - Loose cargo transportation, Category 5 - Truck/trailer - loose cargo

**Vibration - Tracked Vehicles\*** MIL-STD-810G. Method: 514.6 , Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, tracked vehicles

**Vibration - Wheeled Vehicle\*** MIL-STD-810G. Method: 514.6 , Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, wheeled vehicles

## EMC Specification (\* designed to meet)

<b>CE EMI*</b>	EN61000-6-3:2007
<b>CE EMS*</b>	EN55032:2015
<b>EMI conducted CE102*</b>	MIL-STD-461F, Method CE102 BASIC CURVE 10kHz to 10MHz
<b>EMI radiated RE102*</b>	MIL-STD-461F 2MHz - 18Ghz Navy Mobile & Army
<b>EMS conducted CS101*</b>	MIL-STD-461F, Method CS101, conducted susceptibility, power leads CURVE #1 30Hz to 150kHz
<b>EMS conducted CS114*</b>	MIL-STD-461F 10kHz - 200MHz Army, Ground
<b>EMS conducted CS115*</b>	MIL-STD-461F Conducted susceptibility, bulk cable injection, impulse excitation
<b>EMS conducted CS116*</b>	MIL-STD-461F 10 kHz to 100 MHz
<b>EMS radiated RS103*</b>	MIL-STD-461F 2MHz to 1GHz Army
<b>ESD*</b>	EN61000-4-2:2009 Level 3 EN50024:1998 Performance criteria B + A1:2001 + A2:2003