

# 19"/2 CS9121



## Powerful computer with extensive network capabilities

The CS9100 series provides a high performance i7 computer with up to 12 ethernet ports ideal as platform for router or switch applications. It is optimized for low size, weight and power (SWaP) to meet industry requirements without sacrificing reliability, ruggedness or performance.

### Mounting

The 19"/2 standard enables flexible mounting with customized brackets. The unit can be mounted in a 19" rack, half racks, directly to a surface and in any angle.

### Built to take a beating

The Computer is built to withstand the harshest conditions over the long haul. It features aluminium casing, sealed connectors and comes with 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 after end-of-life.

### Features

- Intel Gen 9 Graphics
- Up to 32 GB RAM ECC
- Intel Core i7-6822EQ processor
- M.2 disk
- Passively cooled

## Connector Interfaces

<b>CONSOLE</b> (front)	• 1x RS232 Console
<b>ETH2, ETH3, ETH4, ETH5, ETH6, ETH7, ETH8, ETH9</b> (front)	8 connectors which each has: <ul style="list-style-type: none"> <li>• 1x ETH</li> </ul>
<b>ETH10, ETH11</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

## Other Interfaces

1x System Button (front)

## Technical Specification

<b>Blanking</b>	Double-pressing the System button
<b>Computer Graphics</b>	Intel Gen 9 Graphics
<b>Computer primary memory</b>	Up to 32 GB RAM ECC
<b>Computer Processor</b>	Intel Core i7-6822EQ processor
<b>Internal Disk</b>	M.2 disk
<b>LAN</b>	1000BASE-T standard
<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</b>	220x44x400 mm (WxHxD)
<b>Earth point</b>	M6 12mm
<b>Surface treatment chassis</b>	Chromit-Al
<b>Weight</b>	4.1 kg
<b>MTBF</b>	88064 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 55 °C (131 °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)
<b>Transit drop, in shipping package*</b>	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