

# 19"/2 Server CS1122



## Xeon Server in a 19"/2 form factor

The CS1100 series provides a powerful Xeon server optimized for virtual server applications. It comes with a 3 disk hardware RAID and a wide range of interfaces and options. 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 aluminum casing, rugged MIL connectors and IP65 rated disk caddies to enable the unit to work in demanding environments.

## 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 after end-of-life.

## Features

- Up to 128 GB RAM
- Intel Xeon D1548 CPU
- Up to 8 cores (16 threads)
- RAID 0, 1, 5
- Minimum 1024x768 resolution
- Replaceable CMOS battery
- TPM 2.0
- Compatible with VMware ESXi 6.5

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## Connector Interfaces

COM1 (front)	• 1x COM
DC IN (front)	• 1x Power
ETH0-ETH2 1G (front)	3 connectors which each has: <ul style="list-style-type: none"> <li>• 1x ETH 1000BASE-T</li> </ul>
ETH3 10G (front)	• 1x ETH 10GBASE-T
ETH IPMI (back)	• 1x ETH 100BASE-T
FAN (back)	• 1x FAN
SERVICE (back)	• 1x RS232 Service
SD (back)	• 1x SD card reader
USB3/4 (front)	• 2x USB 2.0
USB3/4 (back)	• 2x USB 3.0
USB1/2 (front)	• 2x USB 3.0
VGA (front)	• 1x VGA

## Other Interfaces

3x MilDef Disk Slot (front)
1x System Button (front)

## Technical Specification

Blanking	Double-pressing the System button
Computer Memory	Up to 128 GB RAM
Computer Processor	Intel Xeon D1548 CPU
Computer Storage	RAID 0, 1, 5
Display resolution minimum	Minimum 1024x768 resolution
CMOS Battery	Replaceable CMOS battery, located behind a cover for easy access.
TPM	TPM 2.0
VMware ESXi 6.5	Compatible with VMware ESXi 6.5
MIL-STD-1275D	5.3.2.2 5.3.2.3 5.3.2.4
Polarity protection	Protected against polarization failure on the power input in the voltage range of normal operation.
Power consumption	160W
Power input	16-32 VDC
Coating and color	Dupont AE0305-6603120 (RAL6031)
Dimensions Width and Height	220x88mm (8,7x3,5 inch) (WxH)
Earth point	M6 12mm
Rack Mounting depth	400 mm (17.4 inch)
Surface treatment chassis	Chromit-Al
Weight	8 kg (17.7 lbs)
MTBF	Greater than 25000 h

## Environmental Specification

Functional shock - Operating	MIL-STD-810G, Method 516.6, Procedure I - Functional Shock. Table 516.6-II, Terminal peak sawtooth pulse, Ground equipment 40g 11 ms
High temperature - Operating	MIL-STD-810G, Method 501.5, Procedure II - Operation 55 °C (131 °F)
High temperature - Storage	MIL-STD-810G, Method 501.5, Procedure I - Storage 71 °C (160 °F)
Humidity	MIL-STD-810G, Method 507.5, Procedure II - Aggravated 95 ±4% RH Ten 24-hour cycles
IP Class (Solid Particle Protection)	IP Class 6X
IP Class (Water)	IP Class X5
Low air pressure - Rapid decompression	MIL-STD-810G, Method 500.5, Procedure III - Rapid decompression 75.2kPa, corresponding to 2438m (8.000 ft) 17kPa, corresponding to 12192m (40.000 ft)
Low air pressure - Operating	MIL-STD-810G, method 500.5, Procedure II - Operation/Air Carriage 4572m (15.000 ft)
Low temperature - Operating	MIL-STD-810G, method 502.5, Procedure II - Operation -40 °C (-40 °F)
Low temperature - Storage	MIL-STD-810G, method 502.5, Procedure I - Storage -40 °C (-40 °F)
Noise level	Maximum noise level of 40dB SPL A-weighting at 1m (3.3 ft) distance
Salt fog	MIL-STD-810G Method: 509.5 5% +- 1% (by weight) Two cycles, 24h wet + 24h dry /cycle
Temperature Shock - Operating	MIL-STD 810G, method 503.5 procedures I - C, - Multi-cycle shocks from constant extreme temperature 55 °C (131 °F) -40 °C (-40 °F)
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

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<b>Vibration - Helicopter</b>	MIL-STD-810G. Method 514.6, Procedure I - General vibration, Category 14 - Rotary wing aircraft - helicopter
<b>Vibration - Loose Cargo</b>	MIL-STD-810G. Method 514.6, Procedure II - Loose cargo transportation, Category 5 - Truck/trailer - loose cargo
<b>Vibration - Tracked Vehicles</b>	MIL-STD-810G. Method: 514.6 , Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, tracked vehicles
<b>Vibration - Wheeled Vehicle</b>	MIL-STD-810G. Method: 514.6 , Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, wheeled vehicles
<b>EMC Specification</b>	
<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 Navy Mobile & Army 2MHz - 18GHz
<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 Army, Ground 10kHz - 200MHz
<b>EMS conducted CS115</b>	MIL-STD-461F Conducted susceptibility, bulk cable injection, impulse excitation
<b>EMS conducted CS116</b>	MIL-STD-461F 10kHz - 100MHz
<b>EMS radiated RS103</b>	MIL-STD-461F Army 2MHz - 1GHz
<b>ESD</b>	EN61000-4-2:2009 Level 3 EN50024:1998 Performance criteria B + A1:2001 + A2:2003