

# 19"/2 Server CS1101



## Xeon Server in a 19inch2 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.

### Features

- Up to 128 GB RAM
- Intel Xeon D1577 CPU
- Up to 16 cores (32 threads)
- RAID 0, 1, 5
- 1000BASE SX
- Replaceable CMOS battery

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## Connector Interfaces

DC IN (front)	<ul style="list-style-type: none"> <li>1x Power</li> </ul>
SERVICE (back)	<ul style="list-style-type: none"> <li>1x RS232 Service</li> <li>1x FAN 12V</li> </ul>
X1 (front)	<ul style="list-style-type: none"> <li>1x VGA</li> <li>1x AUDIO_IN</li> <li>1x AUDIO_OUT</li> <li>2x USB</li> <li>1x RS232</li> </ul>
X2 (back)	<ul style="list-style-type: none"> <li>3x USB</li> <li>1x Remote Power On</li> <li>2x RS232</li> </ul>
X3, X4 (front)	2 connectors which each has: <ul style="list-style-type: none"> <li>1x LAN Fiber</li> </ul>
X5 (front)	<ul style="list-style-type: none"> <li>2x USB 3.0</li> </ul>

## Other Interfaces

3x MilDef Disk Slot (front)
1x Battery Cover (right side)
1x System Button (front)

## Technical Specification

Blanking	Double-pressing the System button
Computer Memory	Up to 128 GB RAM
Computer Processor	Intel Xeon D1577 CPU
Computer Storage	RAID 0, 1, 5
LAN 1000BASE-SX	1000BASE SX standard with MM (62.5um) 850nm fiber
CMOS Battery	Replaceable CMOS battery, located behind a cover for easy access.
Electrical bonding	Less than 2,5mOhm between earth stud and any conducted part of the chassis.
Electrical isolation	More than 10MOhm between chassis and any GND signal measured in DC mode.
MIL-STD-1275D	5.3.2.1 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	150W
Power input	16-32 VDC
Coating and color	Dupont AE0305-6603120 (RAL6031)
Dimensions Width and Height	220x88mm (WxH)

Earth point	M6 12mm
Rack Mounting depth	430mm
Surface treatment chassis	Chromit-AI
Weight	8 kg

## Environmental Specification (\* designed to meet)

Functional shock, operating*	MIL-STD-810G, Method 516.6, Procedure I - Functional Shock. Table 516.6-II, Terminal peak sawtooth pulse, Ground equipment
High temperature - Operating*	MIL-STD-810G, method 501.5, Procedure II - Operation 55 °C
High temperature - Storage*	MIL-STD-810G, method 501.5, Procedure I - Storage 71 °C
Humidity*	MIL-STD-810G, Method 507.5, Procedure II - Aggravated 95 ± 4 %rh
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
Low air pressure - operating*	MIL-STD-810G, method 500.5, Procedure II - Operation/Air Carriage 4572m (15.000 ft)
Low temperature - Operational*	MIL-STD-810G, method 502.5, Procedure II - Operation -40 C
Low temperature - Storage*	MIL-STD-810G, method 502.5, Procedure I - Storage -40 C
Noise level*	Maximum noise level of 40dB SPL A-weighting @ 1m distance
Salt fog*	MIL-STD-810G Method: 509.5
Temperature Shock - Operating*	MIL-STD 810G, method 503.5 procedures I - C, - Multi-cycle shocks from constant extreme temperature 55 C - 40 C
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, < 91 cm, 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

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	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 (* designed to meet)</b>	
<b>CE EMI*</b>	EN61000-6-3:2007
<b>CE EMS*</b>	EN55022:2010
<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 suceptibility, 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
<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