19"/2 Server CS1101



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.

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
- TPM 2.0



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Connector Interfaces	
DC IN (front)	• 1x Power
SERVICE (back)	1x RS232 Service1x FAN 12V
X1 (front)	 1x VGA 1x AUDIO_IN 1x AUDIO_OUT 2x USB 1x RS232
X2 (back)	3x USB1x Remote Power On2x RS232
X3, X4 (front)	2 connectors which each has:1x LAN Fiber
X5 (front)	• 2x USB 3.0

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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.
TPM	TPM 2.0
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 (including power input return) measured in DC mode.
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	150W
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	430mm
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	
ID Class /Call d Dantiel a Donate atten	\ ID 6	

	Ten 2 i noar 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)



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

