

19"/2 Server Xeon CS1107



Full Server in a 19"/2 form factor

The 19"/2 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.

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 Server is combat proven 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.

Features

- Up to 128 GB RAM
- Intel Xeon D1548 processor
- 8 cores (16 threads)
- RAID 0, 1, 5
- 80 mm axial fan
- Replaceable CMOS battery
- TPM 2.0

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Connector Interfaces

DC IN (front)	• 1x Power
FAN (back)	• 1x FAN
SERVICE (back)	• 1x RS232 Service
X1 (front)	• 4x ETH 1000BASE-T
X2 (front)	• 1x VGA • 3x USB 2.0

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 D1548 processor
Computer Storage	RAID 0, 1, 5
Fan	80 mm axial fan
LAN 1000BASE-T	1000BASE-T standard
CMOS Battery	Replaceable CMOS battery, located behind a cover for easy access.
TPM	TPM 2.0
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	430mm
Surface treatment chassis	Chromit-Al
Weight	9 kg (20 lbs)

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
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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)
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
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

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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 Mobile & Army 2MHz - 18GHz
EMS conducted CS101	MIL-STD-461F, Method CS101, conducted susceptibility, 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