

19"/2 Computer CS2101



Computer in a 19inch2 form factor

The 19"/2 Computer packs high-performance computing power into a frame up to 75% smaller than standard 19" ruggger servers. This significantly reduces the Computer's weight, energy consumption and heat production.

Built to take a beating

The Computer is built 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

- Intel HD Graphics P530
- Up to 32 GB RAM
- Intel Xeon E3-1505L V5 processor

19"/2 Computer CS2101

Connector Interfaces

SERVICE (back)	<ul style="list-style-type: none"> 1x RS232 Service
X1 (front)	<ul style="list-style-type: none"> 3x USB2.0 3x RS232
X2 (front)	<ul style="list-style-type: none"> 4x ETH 1000BASE-T
X3 DC IN (front)	<ul style="list-style-type: none"> 1x Power
X4 (front)	<ul style="list-style-type: none"> 1x DVI
X5 (front)	<ul style="list-style-type: none"> 1x VGA 1x Remote Power On 1x AUDIO
X6 (back)	<ul style="list-style-type: none"> 1x eSATA
X7 (front)	<ul style="list-style-type: none"> 1x USB3
X8 (front)	<ul style="list-style-type: none"> 1x USB3

Other Interfaces

1x System Button (front)

Technical Specification

Blanking	Double-pressing the System button
Computer Graphics	Intel HD Graphics P530
Computer Memory	Up to 32 GB RAM
Computer Processor	Intel Xeon E3-1505L V5 processor
Graphics resolution	Max 1920 x 1200 @ 60H on DVI and VGA.
IPMI SSIF access	IPMI 2.0 (limited feature set) SSIF Interface
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	Idle TBD W Typical TBD W Max TBD W
Power input	12-32 VDC
Coating and color	Dupont AE0305-6603120 (RAL6031)
Cooling	Passively cooled
Dimensions Width and Height	220x44mm (WxH)
Earth point	M6 12mm

Rack Mounting depth	400mm
Surface treatment chassis	Chromit-AI
Weight	4.5 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 71 °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

19"/2 Computer CS2101

	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)	
CE EMI*	EN61000-6-3:2007
CE EMS*	EN55022:2010
EMI conducted CE102*	MIL-STD-461F, Method CE102 BASIC CURVE 10kHz to 10MHz
EMI radiated RE102*	MIL-STD-461F 2MHz - 18Ghz Navy Mobile & Army
EMS conducted CS101*	MIL-STD-461F, Method CS101, conducted suceptibility, power leads CURVE #1 30Hz to 150kHz
EMS conducted CS114*	MIL-STD-461F 10kHz - 200MHz Army, Ground
EMS conducted CS115*	MIL-STD-461F
EMS conducted CS116*	MIL-STD-461F 10 kHz to 100 MHz
EMS radiated RS103*	MIL-STD-461F 2MHz to 1GHz Army
ESD*	EN61000-4-2:2009 Level 3 EN50024:1998 Performance criteria B + A1:2001 + A2:2003