19"/2 ® CS2292



Powerful computer with extensive network capablilites

The CS2292 provides a high performance computer with 10 ethernet ports, ideal as a platform for router or switch applications. It is optimized for low size, weight and power (SWaP) to meet industry requirements without sacrificing reliability, ruggedness or performance.

Small form factor

The MilDef 19"/2 ® form factor is optimized for reduced size, weight, and power (SWaP) to meet industry and military requirements without sacrificing reliability, ruggedness or performance.

Flexible mounting

The 19"/2 ® standard enables flexible mounting options for a wide array of integration scenarios. The unit can be mounted in a standard 19" rack, half racks, or directly on to a surface and at any angle.

Military-relevant rugged design

MilDef products are designed to operate in extreme environmental conditions and challenging electromagnetic operational scenarios. Operationally proven, MilDef products are actively employed in military operations in over 60 countries.

Guaranteed performance

MilDef products are designed for the long lifecycles of military programs and come with a lifetime support program to ensure your equipment maintains peak performance for many missions to come.

We also guarantee the availability of spare parts for an additional 5 years after product end-of-life.

Features

- Intel® HD Graphics P630
- Up to 64 GB RAM ECC
- M.2 SSD NVMe
- 2.0 GHz, Intel® Xeon® 9th Gen, E-2276ML
- 16-32 VDC
- · Passively cooled



Connector Interfaces	
DC IN (back)	1x Power
CONSOLE (front)	1x RS232 Console
ETH0 PoE, ETH1 PoE (front)	2 connectors which each has:
	 1x 1000BASE-T w PoE
ETH2 - ETH7 (front)	6 connectors which each has:
	• 1x 1000BASE-T
ETH8 - ETH9 (back)	2 connectors which each has:
	 1x 1000BASE-T
HDMI (back)	• 1x HDMI
SERVICE (back)	1x RS232 Service
USB3/4 (back)	• 2x USB 2.0
USB1/2 (front)	• 2x USB 3.0
VGA (back)	• 1x VGA

Other Interfaces
2x Status indicator (front)
6x Status indicator (front)
2x Status indicator (back)
1x System button (front)
1x System button (front)

Technical Specification	
Blanking	Double-pressing the System button
Computer graphics	Intel® HD Graphics P630
Computer memory	Up to 64 GB RAM ECC
Internal disk	M.2 SSD NVMe
LAN 1000BASE-T	1000BASE-T standard
LAN POE power delivery	ETH0 and ETH1 shall deliver power according to (802.3af, Class3).
Processor	2.0 GHz, Intel® Xeon® 9th Gen, E-2276ML 6 cores, 12 threads
Electronics ground to chassis	Isolated
MIL-STD-1275D	5.3.2.2 5.3.2.3 5.3.2.4
Polarity protection	Protected against incorrect polarity connection on the power input within the normal operating voltage range
Power consumption	Max 135 W Typ 80 W Idle 40 W
Power input	16-32 VDC
Power to chassis	Isolated

Power to electronics ground	Isolated
Chassis material	Aluminum
Coating and color	RAL1013-HR
Cooling	Passively cooled
Dimensions width and height	220 x 43.4 mm (8.66 x 1.71 in) (WxH)
Earth point	M6 12 mm
Surface treatment chassis	Chromit-Al
Unit depth	365 mm (14.4 in)
Weight	3.9 kg (8.6 lbs)
MTBF	> 85,000 h
CE	Compliant
Environmental Specification	

Environmental	Specifica	tior

Functional shock - Operating	MIL-STD-810H, Method 516.8,
	Procedure I - Functional shock.
	Table 516.8-IV, Terminal peak
	sawtooth pulse, Ground materiel
	10 -

11 ms

High temperature - Operating MIL-STD-810H, Method 501.7,

Procedure II - Operation 55 °C (131 °F)

High temperature - Storage MIL-STD-810H, Method 501.7,

Procedure I - Storage 71 °C (160 °F)

Humidity MIL-STD-810H, Method 507.6,

Procedure II - Aggravated 95 ± 4% RH Ten 24-hour cycles

IP Class (Solid Particle

Protection)

IP Class 6X

IP Class (Water)

Low air pressure - Rapid

IP Class X5

decompression

MIL-STD-810H, Method

500.6, Procedure III - Rapid decompression 2,438 m (8,000 ft)

12,192 m (40,000 ft)

Low air pressure - Operating MIL-STD-810H, Method 500.6, Procedure II - Operation/air

carriage

4,572 m (15,000 ft)

Low temperature - Operating MIL-STD-810H, Method 502.7,

Procedure II - Operation

-40 °C (-40 °F)

Low temperature - Storage

MIL-STD-810H, Method 502.7,

Procedure I - Storage -40 °C (-40 °F)

Noise level

Maximum noise level of 40 dB

SPL A-weighting at 1 m (3.3 ft) distance



Salt fog	MIL-STD-810H, Method 509.7 5 ± 1% (by weight) Two cycles, 24 h wet + 24 h dry / cycle
Temperature shock - Operating	MIL-STD 810H, Method 503.7, Procedure I-C, - Multi-cycle shocks from constant extreme temperature 55 °C (131 °F) -40 °C (-40 °F)
Vibration - Helicopter	MIL-STD-810H, Method 514.8, Procedure I - General vibration, Category 14 - Rotary wing aircraft - helicopter
Vibration - Loose cargo	MIL-STD-810H, Method 514.8, Procedure II - Loose cargo transportation, Category 5 - Truck/trailer - loose cargo
Vibration - Tracked vehicle	MIL-STD-810H, Method 514.8, Procedure I - General vibration, Category 20 - Ground vehicle - ground mobile, Tracked vehicle
Vibration - Wheeled vehicle	MIL-STD-810H, Method 514.8, Procedure I - General vibration, Category 20 - Ground vehicle - ground mobile, Wheeled vehicle
EMC Specification	
EMI conducted CE102	MIL-STD-461F, Method CE102, Conducted emissions, power leads BASIC CURVE 10 kHz - 10 MHz
EMI conducted CE102 EMI radiated RE102	Conducted emissions, power leads BASIC CURVE
	Conducted emissions, power leads BASIC CURVE 10 kHz - 10 MHz MIL-STD-461F, Method RE102, Radiated emissions, electric field Navy Mobile & Army
EMI radiated RE102	Conducted emissions, power leads BASIC CURVE 10 kHz - 10 MHz MIL-STD-461F, Method RE102, Radiated emissions, electric field Navy Mobile & Army 2 MHz - 18 GHz MIL-STD-461F, Method CS101, Conducted susceptibility, power leads CURVE #1
EMI radiated RE102 EMS conducted CS101	Conducted emissions, power leads BASIC CURVE 10 kHz - 10 MHz MIL-STD-461F, Method RE102, Radiated emissions, electric field Navy Mobile & Army 2 MHz - 18 GHz MIL-STD-461F, Method CS101, Conducted susceptibility, power leads CURVE #1 30 Hz - 150 kHz MIL-STD-461F, Method CS114, Conducted bulk susceptibility Army, Ground
EMI radiated RE102 EMS conducted CS101 EMS conducted CS114	Conducted emissions, power leads BASIC CURVE 10 kHz - 10 MHz MIL-STD-461F, Method RE102, Radiated emissions, electric field Navy Mobile & Army 2 MHz - 18 GHz MIL-STD-461F, Method CS101, Conducted susceptibility, power leads CURVE #1 30 Hz - 150 kHz MIL-STD-461F, Method CS114, Conducted bulk susceptibility Army, Ground 10 kHz - 200 MHz MIL-STD-461F, Method CS115, Conducted susceptibility, bulk

ESD	EN61000-4-2:2009 Level 3
	EN55024:1998 Performance
	criteria B + A1:2001 + A2:2003



Army

2 MHz - 18 GHz