

CS2200 Series

Power efficient computer platform for the tactical edge

CS2200 is a versatile, rugged computing platform that delivers high performance, mission-ready reliability, and deployment flexibility for demanding military applications. Built to support a wide range of operational requirements, it provides a proven foundation for tactical computing programs today and in the future.

Key features

Power efficient processing	Power efficient Intel® Xeon®-based architecture
Conduction cooled	No moving parts for optimal reliability in harsh environments
Versatile design	Wide range of interfaces available as well as GPU and RAID options.
Secure Boot	Hardware-validated cryptographic boot protection

Capabilities

The CS2200 platform delivers reliable high-performance computing for mission-critical applications in demanding military environments. It enables users to consolidate multiple functions onto a rugged platform.

Built for deployment across vehicles, shelters, ships, and other tactical installations, the platform provides the flexibility to support a wide variety of mission requirements while maintaining a compact footprint and minimizing integration complexity.

The platform is designed to remain operational in harsh environmental and electromagnetic conditions, helping organizations maintain mission readiness in scenarios where reliability is critical.

The capabilities of the CS2200 series include:

- High-performance Tactical Computing:** Intel® Xeon®-based architecture optimized for military edge computing.
- **Mission-critical Reliability:** Designed to maintain operation under shock, vibration, EMI, dust, moisture, and temperature extremes.
- **Versatile Connectivity:** Equipped with a wide range of rugged interfaces, including fiber Ethernet, USB, CAN and video outputs.
- **SWaP:** Compact 19"/2 form factor optimized for Size, Weight and Power (SWaP)

Form factors

The CS2200 series offers different form factors depending on best fit for a particular use case.

19"/2 Half Rack	Customized form factor	Ultra small form factor
		
- Efficiency optimized performance - Standard or customized configurations - Form, fit & function over generations - Isolated power	- Efficiency optimized performance - Project driven offering and form factor - Isolated power	- Low power platforms - Project driven offering and form factor - Design for battery input power or similar

MilDef 19"/2 modular design

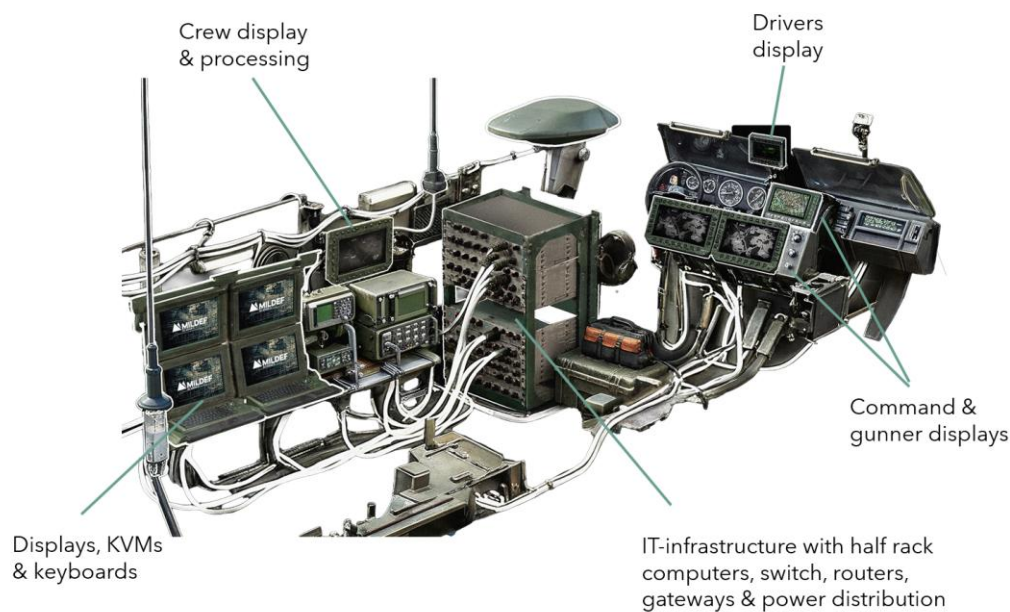
The MilDef 19"/2® addresses the requirements for small, high performance IT hardware. The modular design and broad product offering (computer, network, power and peripherals) enables the use of 19"/2® units as building blocks for creating built to purpose solution. Same form factor over multiple generations enable reuse of cable, mounting solution etc for midlife upgrades along the system life cycle.

Solution provider

MilDef offers solution and integration delivering seamless, end-to-end solutions by integrating hardware and software into complete systems that meet customer requirements. Managing integration projects/programs to ensure alignment with mission objectives/business strategy and technological capabilities.

Hardware ECO-system

Our hardware offer includes all the building blocks for complete IT infrastructure for the tactical edge, such as displays, network products, power products, docking stations, mounting solutions etc.



Use case

The CS2200 series is a core component of many tactical platform designs. Some use case examples are:

- **Armoured Command Vehicle**
Multiple workstations as part of a full C2 infrastructure for a forward command post vehicle. Interconnects with radios, sensors and vehicle intercom to enable reliable operations.
- **Autonomous and Unmanned Systems**
Functions as the mission computing platform for autonomous and remotely operated systems, enabling sensor fusion, mission management, AI-driven analytics, and real-time decision-making in contested and disconnected environments.
- **Deployable Command Post Infrastructure**
Forms the backbone of rapidly deployable communications and IT infrastructure for tactical headquarters, shelters, and mobile operations centers.

Specifications

Computing capability			
Processor	Intel Xeon-E2276ML/ME 6 Core / 12 threads	Security	Error Correction Code (ECC), Intel vPro, TPM2.0, Secure Boot.
Memory	Up to 64GB DDR4 ECC	Video	Option for DVI, HDMI, VGA and SDI are available
Graphics	Intel HD P630 or NVIDIA GPU	Communication Interfaces	RS232/422/485, CAN, USB 3.2 Gen 1, USB 2.0
Storage	M2 NVME SSD or 2.5" SATA SSD Hardware RAID options	Wireless	GNSS, 4G/5G, WLAN options are available.
Network	1G or 10G Ethernet NICs Built in switch options	Other	Integration of PCIe card available at request as well as customizable BIOS
Environmental			
MIL-STD-810			
Shock operating	Functional Shock. 40G/11ms	Noise level	Max noise level of 40 dB SPL 1 m (3.3 ft)
Temp. operating	-40 to 65°C (-40 to 131 °F)*	Salt fog	5 ± 1%
Temp. storage	-40 to 71°C (-40 to 160 °F)*	Temp. shock	55 °C (131 °F) / -40 °C (-40 °F)*
Humidity	Aggravated, 95 ± 4% RH	Vibration	Rotary wing aircraft – helicopter
IP Class	IP65*		Truck/trailer - loose cargo
Low air pressure	Rapid Decompression - 2 438 m/12 192 m (8000 ft / 40000 ft)		Ground vehicles
	Operation/Air Carriage - 4 572 m (15,000 ft)		- ground mobile tracked - ground mobile wheeled
Optional standards			
RTCA/D0160, VG, DEFSTAN, MIL-STD, etc can be included on request			
EMC			
MIL-STD-461			
EMI/EMS	Ground Army	ESD	EN61000-4-2:2009 Level 3 EN55024:1998 Performance criteria B + A1:2001 + A2:2003
Optional standards			
RTCA/D0160, VG, DEFSTAN, MIL-STD, Tempest etc can be included on request.			
Power			
Vehicle Power	MIL-STD-1275		
Optional standards			
VG, DEFSTAN, MIL-STD, etc can be included on request.			

*Higher available on request