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SEMIL-2200 Series

2U 19"/2 rack mount IP69K mission critical computer supporting Intel® 14th/ 13th/ 12th-Gen Core™ processor

Key Features

- 2U IP69K mission critical computer
- Up to 128 GB ECC/ non-ECC DDR5 4800 SDRAM
- -40°C to 70°C wide-temperature fanless operation
- 2x 10GbE, 4x 2.5GbE, 1x GbE via M12 X-coded connectors
- 2x SocketCAN and 2x USB3.2 Gen1 Type-C w/ DP alternative mode
- 9V to 36V wide-range DC input with built-in ignition power control
- MIL-STD-810H, MIL-STD-461G, MIL-STD-1275D compliant



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*R.O.C Patent No. 1697759
*CN Patent Pending

Introduction

SEMIL-2200 series is a cutting-edge, AI-enabled mission-critical computer engineered for demanding environments. Housed in a 2U 19"/2 rack-mount chassis, this IP69K-rated system is impervious to dust, water, and capable of flawless operations in -40°C to 70°C environments. The SEMIL-2200 series is powered Intel's 14th, 13th, or 12th generation processors and supports up to 128GB ECC/ non-ECC DDR5 memory to offer exceptional computing power and efficiency.

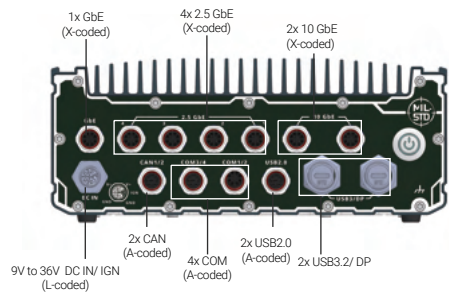
The system employs a corrosion-resistant stainless steel and aluminum chassis to safeguard against moisture and salinity. Its ruggedized M12 connectors can withstand shock and vibration, making it ideal for harsh industrial and field applications. Its comprehensive connectivity options include dual CAN bus 2.0, multiple USB 3.2, and seven Ethernet ports including two 10GbE to connected high-speed devices.

The SEMIL-2200 series is MIL-STD-810H compliant, proven to withstand extreme temperatures, humidity, vibration, and shock. Additionally, it complies with MIL-STD-461G standards, ensuring immunity to electromagnetic interference. For applications in mobile or vehicular environments, this platform meets the requirements of MIL-STD-1275D. With its exceptional performance, rugged construction, and adherence to stringent military standards, the SEMIL-2200 series is the ideal solution for critical applications demanding reliability and durability in mission-critical environments.

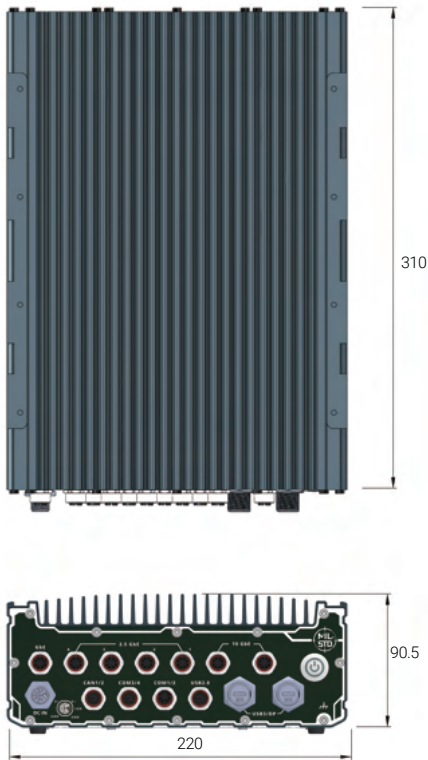
Specifications

System Core		Storage Interface	
Processor	Supporting Intel® 14th-Gen Core™ CPU (LGA1700 socket, 35W TDP) - Intel® Core™ i9-14900T - Intel® Core™ i7-14700T - Intel® Core™ i5-14500T - Intel® Core™ i3-14100T	SATA HDD	2x Internal SATA port for 2.5" HDD/ SSD installation, supporting RAID 0/ 1
	Supporting Intel® 13th-Gen Core™ CPU (LGA1700 socket, 35W TDP) - Intel® Core™ i9-12900TE - Intel® Core™ i7-12700TE - Intel® Core™ i5-12500TE - Intel® Core™ i3-12100TE	M.2	1x M.2 2280 M key NVMe socket (PCIe Gen4x4) for NVMe SSD
	Supporting Intel® 12th-Gen Core™ CPU (LGA1700 socket, 35W TDP) - Intel® Core™ i9-12900TE - Intel® Core™ i7-12700TE - Intel® Core™ i5-12500TE - Intel® Core™ i3-12100TE	Expansion Bus	
	Supporting Intel® 12th-Gen Core™ CPU (LGA1700 socket, 35W TDP) - Intel® Core™ i9-12900TE - Intel® Core™ i7-12700TE - Intel® Core™ i5-12500TE - Intel® Core™ i3-12100TE	Mini PCI-E	3x full-size mini PCI Express socket with SIM slot
Chipset	Intel® R680E platform controller hub	M.2	1x M.2 2242/3052 B key socket with dual SIM slot for M.2 5G/ 4G module 1x M.2 2230 E key socket for Wi-Fi
Graphics	Integrated Intel® UHD Graphics 770 (32EU)	Power Supply	
Memory	Up to 128 GB ECC/ non-ECC DDR5 4800 SDRAM (two SODIMM slots)	DC Input	9V to 36V DC input with reverse polarity protection (M12 L-coded)
AMT	Supports Intel vPro/ AMT 16.0	Ignition Control	Built-in ignition power control (IGN/ GND signal via M12 L-coded connector)
TPM	Supports dTPM 2.0	Mechanical	
I/O Interface		Dimension	220mm (W) x 310mm (D) x 90.5mm (H) (excl. rack-mount bracket)
Ethernet Port	2x 10GbE Ethernet by X550-AT2 (with WoL) (M12 X-coded) 4x 2.5GbE Ethernet by Intel I226-IT (M12 X-coded) 1x GbE Ethernet by Intel I219-LM (with WoL) (M12 X-coded)	Weight	6.2 kg
CAN Bus	2x isolated CAN 2.0 port, supporting SocketCAN in Linux	Mounting	Rack-mounting (standard) and wall-mounting (standard)
USB	2x Type-C USB 3.2 Gen1x1 (5Gbps) ports (shared DisplayPort) 2x USB 2.0 ports (M12 A-coded)	Environmental	
Video Port	2x Type-C USB connector supporting DP output (shared USB3.2 Gen1x1)	Operating Temperature	-40°C to 70°C
Serial Port	2x isolated 3-wire RS-232 ports (COM1/ COM2) 1x isolated 3-wire RS232 (COM3) & 1x RS-422/ 485 port (COM4)	Storage Temperature	-40°C ~85°C
		Humidity	10%~90% , non-condensing
		Vibration	MIL-STD-810H: 514.8C-VII, Category 4
		Shock	MIL-STD-810H: 516.8 Procedure I
		EMC	MIL-STD-461G: - CE102 (10kHz~10MHz) - RE102 (2MHz~18GHz) - RS103 (2MHz~18GHz, 50V/m)
		Electrical Systems	MIL-STD-1275D: Normal operating mode (ripples, surges, spikes)
		IP Rating	IP69K

Appearance



Dimensions



Unit : mm

Mounting Configuration



▲ SEMIL 19" rack-mount



▲ SEMIL wall-mount


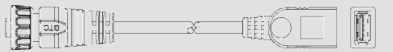



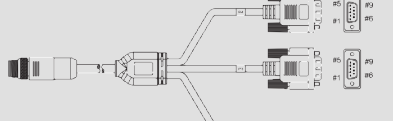
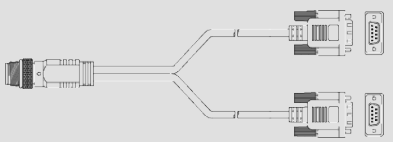
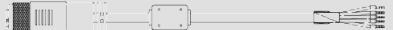
Ordering Information

Model No.	Product Description
SEMIL-2207	2U 19"/2 rack mount IP69K mission critical computer supporting Intel® 14th/ 13th/ 12th-Gen Core™ processor with 2x M12 10GbE and 4x M12 2.5GbE ports

Optional Accessories

PA-280W-CW6P-2P	280W AC-DC power adapter 24V 11.67A, 85~264VAC, -30~+70°C w/ Wafer FML6P to 2P End Terminal cable for AWP/SEMIL
JPlate-SL	Joint plate for dual SEMIL assembly (for SEMIL-2000)
Rmkit-SL	Rack mount for single SEMIL (for SEMIL-2000)

SEMIL-2000 Series

Type	Model Name	Description
	Cbl-TpCPlug-DPM-1M	TypeC Male Plug to DP Male Cable, Length : 1M
	Cbl-TpCPlug-U3TA-50CM	TypeC Male Plug to USB3.0 Type-A FML, Length: 50CM
	Cbl-TpCPlug-UTpCF-50CM	TypeC Male Plug to USB Type-C FML Cable, Length : 50CM
	Cbl-M12X8M-RJ45-500CM	M12(8-pole-X-coded) to RJ45 Plug, CAT6, Length : 500CM
	Cbl-M12A8M-2U2TA-180CM2	M12 (8-pole-A-coded) to 2xUSB 2.0 type A (female), Length: 180CM
	Cbl-M12A8M-2DB9M_OW2-180CM1	M12 A-Code Male 8P to x2 DB9 Male+2P, Length: 180CM
	Cbl-M12A8M-2DB9M-180CM	M12 (8-pole-A-coded male) to 2x DB9 male, Length: 180CM
	Cbl-M12L5F-CordEnd5-180CM	M12 L-Code 5P(FML) to Cord End Terminal 5P, Length: 1.8M

Cable Kit

SEMIL-2000 M12 cable kit		
Cblkit-M12-SEMIL2007	7x Cbl-M12X8M-RJ45-500CM	1x Cbl-M12A8M-2U2TA-180CM2
	2x Cbl-M12A8M-2DB9M_OW2-180CM1 (COM1/2 & CAN1/2)	1x Cbl-M12A8M-2DB9M-180CM (COM3/4)
	1x Cbl-M12L5F-CordEnd5-180CM	