

MD-3000

14/13/12th Generation Intel Core Series Processors, High Performance and Scalable DIN-Rail Computer



The Most Powerful & Scalable DIN-Rail Computer

MD-3000: Dedicated to Machine Vision Excellence

Overview

[CONTACT](#)

Designed for workstations and machinery in machine vision and smart manufacturing, the Cincoze MD-3000 series is a unique DIN-Rail embedded computer with compact size, excellent performance, broad expandability, and high reliability.

- Small and powerful: The body is only 150 mm high but supports a desktop-grade Intel® Core™ CPU. This easily copes with high-speed image processing and AI applications.
- Small and expandable: Includes multiple native high-speed and industrial I/O and M.2 expansion slots. Supports up to a six-slot Scalable Expansion Deck (SED), allowing flexible installation of Scalable Expansion Modules (SEMs) for additional I/O, storage, and wireless transmission functions.
- Small and reliable: Consistent rugged design that passes multiple industrial standards (vibration resistant, shock resistant, EMC, safety, etc.) to ensure long-term stable operation in harsh environments. This makes it the best computing platform for machine vision applications at smart manufacturing sites.

Key Features

- Intel® 14/13/12th Gen Raptor Lake-S Refresh / Raptor Lake-S / Alder Lake-S Core™ i9/i7/i5/i3 Processor
- Scalable Design with Optional Scalable Expansion Deck for I/O Modules Expansion
- Compact Size with DIN-Rail Mount Support
- Supports Dual PCIe4 NVMe SSD with RAID Function

Certifications



EN 61000-6-2

EN 61000-6-4

EN 62368-1

LISTED

Excellent Computing Performance

Supports 14th/13th/12th generation Intel® Core™ CPUs (35–65W), up to 96GB of 5600MHz DDR5 memory, and up to 2 NVMe SSDs. Delivers the performance required for machine vision tasks, such as vision-guided robotics, inspection, measurement, and visualization.

14 / 13 / 12th Gen

Intel Core Series



24 Cores · 32 Threads · 65W



Key Heat Dissipation Technology

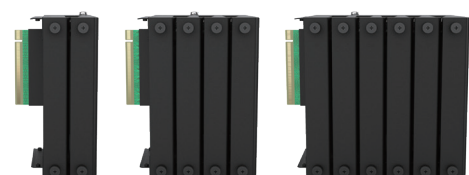
Two thermal designs ensure sustained performance: the patented Dynamic Thermal Mechanism design, ensuring tight fit between the CPU heatsink and top cover, an external fan provides dust-free cooling, and the patented Smart OTP monitors fan status and system/CPU temperature.
(Patent No. I893729, I870277)

Comprehensive Expansion Options

2-, 4-, and 6-slot SEDs support various SEMs for I/O, PoE, M.2 expansion, 2.5" storage, and more. enabling wireless transmission and expanding storage capacity to meet diverse application needs.



Scalable Expansion Module (SEMs)



Scalable Expansion Deck (SEDs)

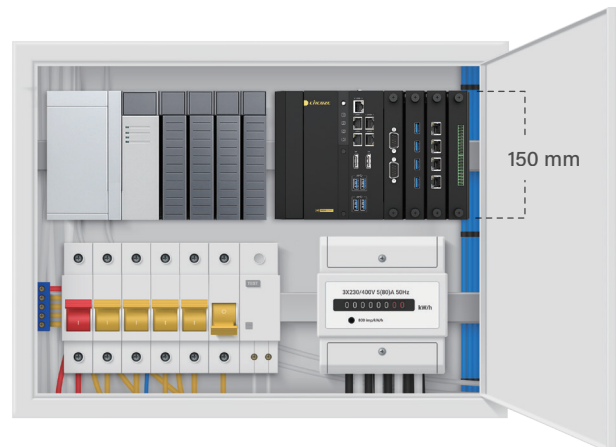


Easy to Configure & Plug and Play

Cincoze's SEM modules are flexible and hot-swappable. They feature Guiding Rail Alignment design for easier and faster installation.

Thoughtful Installation Design

With a compact 150 mm high design, DIN-rail mounting, and all operation interfaces and maintenance areas accessible from the front, it is ideal for cabinet or enclosure installations.



-40 – 65°C
-40 – 149°F



9 - 48VDC



EN 61000-6-2



EN 61000-6-4

Robust and Reliable

Supports wide temperature (-40°C to 65°C) and voltage (9–48 VDC) ranges, and complies with industrial EMC standards (EN 61000-6-2/4), ensuring reliable and stable operation in harsh environments.

Specifications

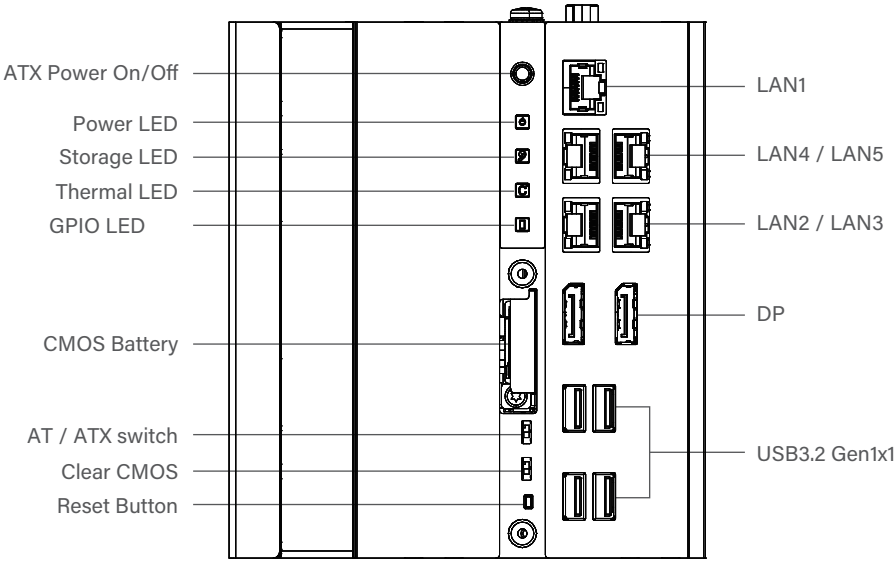
Model Name	MD-3000
System	
Processor	• 14th Generation Intel® Raptor Lake-S Refresh Series P-Core Only CPU: - Intel® Core™ i9-14901E 8 Cores Up to 5.6 GHz, TDP 65W - Intel® Core™ i7-14701E 8 Cores Up to 5.4 GHz, TDP 65W - Intel® Core™ i5-14501E 6 Cores Up to 5.2 GHz, TDP 65W - Intel® Core™ i5-14401E 6 Cores Up to 4.7 GHz, TDP 65W - Intel® Core™ i3-14100 4 Cores Up to 4.7 GHz, TDP 60W - Intel® Core™ i9-14901TE 8 Cores Up to 5.5 GHz, TDP 45W - Intel® Core™ i7-14701TE 8 Cores Up to 5.2 GHz, TDP 45W - Intel® Core™ i5-14501TE 6 Cores Up to 5.1 GHz, TDP 45W - Intel® Core™ i5-14401TE 6 Cores Up to 4.5 GHz, TDP 45W - Intel® Core™ i3-14100T 4 Cores Up to 4.4 GHz, TDP 35W - Intel® Processor 300 2 Cores Up to 3.9 GHz, TDP 46W - Intel® Processor 300T 2 Cores Up to 3.4 GHz, TDP 35W • 14th Generation Intel® Raptor Lake-S Refresh Series Hybrid CPU: - Intel® Core™ i9-14900 24 Cores Up to 5.8 GHz, TDP 65W - Intel® Core™ i7-14700 20 Cores Up to 5.4 GHz, TDP 65W - Intel® Core™ i5-14500 14 Cores Up to 5.0 GHz, TDP 65W - Intel® Core™ i5-14400 10 Cores Up to 4.7 GHz, TDP 65W - Intel® Core™ i9-14900T 24 Cores Up to 5.5 GHz, TDP 35W - Intel® Core™ i7-14700T 20 Cores Up to 5.2 GHz, TDP 35W - Intel® Core™ i5-14500T 14 Cores Up to 4.8 GHz, TDP 35W - Intel® Core™ i5-14400T 10 Cores Up to 4.5 GHz, TDP 35W • 13th Generation Intel® Raptor Lake-S Series P-Core Only CPU: - Intel® Core™ i3-13100E 4 Cores Up to 4.4 GHz, TDP 60W - Intel® Core™ i3-13100 4 Cores Up to 4.5 GHz, TDP 60W - Intel® Core™ i3-13100TE 4 Cores Up to 4.1 GHz, TDP 35W - Intel® Core™ i3-13100T 4 Cores Up to 4.2 GHz, TDP 35W • 13th Generation Intel® Raptor Lake-S Series Hybrid CPU: - Intel® Core™ i9-13900E 24 Cores Up to 5.2 GHz, TDP 65W - Intel® Core™ i9-13900 24 Cores Up to 5.6 GHz, TDP 65W - Intel® Core™ i7-13700E 16 Cores Up to 5.1 GHz, TDP 65W - Intel® Core™ i7-13700 16 Cores Up to 5.2 GHz, TDP 65W - Intel® Core™ i5-13500E 14 Cores Up to 4.6 GHz, TDP 65W - Intel® Core™ i5-13400E 10 Cores Up to 4.6 GHz, TDP 65W - Intel® Core™ i5-13500 14 Cores Up to 4.8 GHz, TDP 65W - Intel® Core™ i5-13400 10 Cores Up to 4.6 GHz, TDP 65W - Intel® Core™ i9-13900TE 24 Cores Up to 5.0 GHz, TDP 35W - Intel® Core™ i7-13700TE 16 Cores Up to 4.8 GHz, TDP 35W - Intel® Core™ i7-13700T 16 Cores Up to 4.9 GHz, TDP 35W - Intel® Core™ i5-13500TE 14 Cores Up to 4.5 GHz, TDP 35W - Intel® Core™ i5-13500T 14 Cores Up to 4.6 GHz, TDP 35W • 12th Generation Intel® Alder Lake-S Series P-Core Only CPU: - Intel® Core™ i5-12500E 6 Cores Up to 4.5 GHz, TDP 65W - Intel® Core™ i5-12500 6 Cores Up to 4.6 GHz, TDP 65W - Intel® Core™ i5-12400 6 Cores Up to 4.4 GHz, TDP 65W - Intel® Core™ i3-12100E 4 Cores Up to 4.2 GHz, TDP 60W - Intel® Core™ i3-12100 4 Cores Up to 4.3 GHz, TDP 60W - Intel® Core™ i5-12500TE 6 Cores Up to 4.3 GHz, TDP 35W - Intel® Core™ i3-12100TE 4 Cores Up to 4.0 GHz, TDP 35W - Intel® Pentium® G7400E 2 Cores Up to 3.6 GHz, TDP 46W - Intel® Pentium® G7400TE 2 Cores Up to 3.0 GHz, TDP 35W - Intel® Celeron® G6900E 2 Cores Up to 3.0 GHz, TDP 46W - Intel® Celeron® G6900TE 2 Cores Up to 2.4 GHz, TDP 35W - Intel® Pentium® G7400 2 Cores Up to 3.7 GHz, TDP 46W - Intel® Pentium® G7400T 2 Cores Up to 3.1 GHz, TDP 35W - Intel® Celeron® G6900 2 Cores Up to 3.4 GHz, TDP 46W - Intel® Celeron® G6900T 2 Cores Up to 2.8 GHz, TDP 35W • 12th Generation Intel® Alder Lake-S Series Hybrid CPU: - Intel® Core™ i9-12900E 16 Cores Up to 5 GHz, TDP 65W - Intel® Core™ i9-12900 16 Cores Up to 5.1 GHz, TDP 65W - Intel® Core™ i7-12700E 12 Cores Up to 4.8 GHz, TDP 65W - Intel® Core™ i7-12700 12 Cores Up to 4.9 GHz, TDP 65W - Intel® Core™ i9-12900TE 16 Cores Up to 4.8 GHz, TDP 35W - Intel® Core™ i7-12700TE 12 Cores Up to 4.7 GHz, TDP 35W

Chipset	Intel R680E Chipset
Memory	2x DDR5 SO-DIMM sockets, support Un-buffered and ECC Type memory, up to 96GB - Core™ i9/i7: Support 5600/4800 MHz with Single Rank memory and 5200/4800 MHz with Dual Rank memory. - Core™ i5/i3/Pentium®/Celeron®/Intel® Processor: Support 4800 MHz.
BIOS	AMI BIOS
Graphics	
Graphics Engine	- Integrated Intel® UHD Graphics 770: Core™ i9/i7/i5 - Integrated Intel® UHD Graphics 730: Core™ i3 - Integrated Intel® UHD Graphics 710: Pentium®/Celeron®/Intel® Processor
Maximum Display Output	Supports Dual Independent Display
Display Port	2x DisplayPort Connector: 4096 x 2304 @ 60Hz * Verified maximum DP resolution: 3840x2160 @ 60Hz
I/O	
LAN	5x GbE LAN, RJ45 - GbE1: Intel® I219 - GbE2~5: Intel® I210
COM	1x RS-232/422/485 with Auto Flow Control (Supports 5V/12V), DB9
USB	4x USB 3.2 Gen1x1(5Gpbs), Type A
Storage / Expansion	
M.2 Key M Socket	1x M.2 Key M Type 2280 Socket (PCIe Gen3 x4), Support Storage / Add-on Card Expansion 1x M.2 Key M Type 2280 Socket (PCIe Gen3 x4 / SATA 3.0), Support Storage / Add-on Card Expansion
Expansion Deck	1x PCIe16 interface for Optional Scalable Expansion Deck
Other Function	
RAID	Supports RAID 0/1/5/10
External FAN Connector	1x External FAN Connector (Support Smart Fan by BIOS)
Clear CMOS Switch	1x Clear CMOS Switch
Reset Button	1x Reset Button
Watchdog Timer	Software Programmable, Supports 256 Levels System Reset
Status LED Indicator	- Power LED - Storage LED - Thermal LED - GPIO LED
Power	
Power Button	1x ATX Power On/Off Button
Power Mode Switch	1x AT/ATX Mode Switch
Power Input	9 - 48VDC, 3-pin Terminal Block
Remote Power On/Off	1x Remote Power On/Off, 2-pin Terminal Block
Remote Power LED	1x Remote Power LED, 2-pin Terminal Block
Max Power Consumption	35W CPU: 195.2W 65W CPU: 279.4W - Test conducted with CPU, 1x RAM, and 1x storage - 100% load during burn-in testing
Inrush Current (Peak)	35W CPU: 9.0A@24V 65W CPU: 9.026A@24V

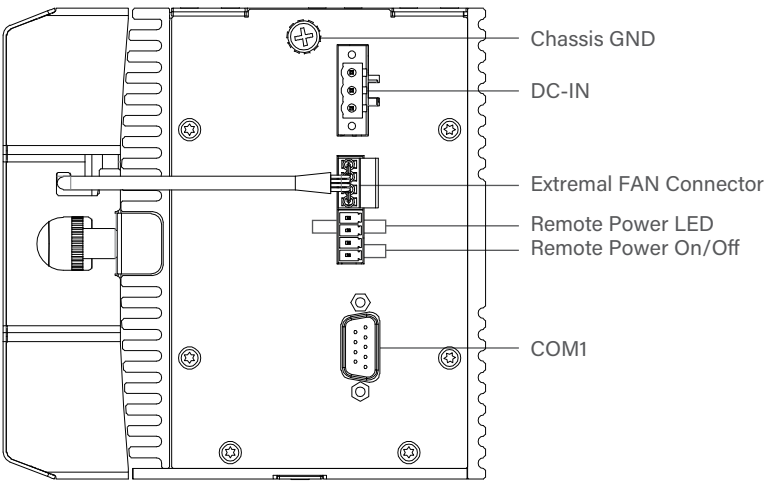
Physical	
Dimension (W x D x H)	• 135.5 x 132 x 152.2 mm
Weight Information	• 3.03 kg
Mechanical Construction	• Extruded Aluminum with Heavy Duty Metal
Mounting	• Wall / DIN-RAIL Mount
Physical Design	• Cableless Design • Jumper-less Design
Reliability & Protection	
Reverse Power Input Protection	• Yes
Over Voltage Protection	• Protection Range: 51~58V • Protection Type: shut down operating voltage, re-power on at the preset level to recover
Over Current Protection	• 15A
CMOS Battery Backup	• SuperCap Integrated for CMOS Battery Maintenance-free Operation
MTBF	• 356,683 Hours - Database: Telcordia SR-332 Issue3, Method 1, Case 3
Operating System	
Windows	• Windows® 10, Windows® 11
Linux	• Ubuntu 22.04
Environment	
Operating Temperature	• 35W TDP Processor: -40°C to 65°C (-40 °F to 149°F) • 45W TDP Processor: -40°C to 55°C (-40°F to 131°F) • 65W TDP Processor: -40°C to 45°C (-40°F to 113°F) * PassMark BurnInTest: 100% CPU, 2D/3D Graphics (without thermal throttling) * With external fan, extended temperature peripherals; Ambient with air flow * According to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14
Storage Temperature	• -40°C to 85°C (-40 °F to 185°F)
Relative Humidity	• 95%@65°C
Shock	• Operating, 30 Grms, Half-sine 11 ms Duration (w/ External Fan & SSD, according to IEC60068-2-27)
Vibration	• Random Vibration: Operating, 3 Grms, 5-500 Hz, 3 Axes (w/SSD, according to IEC60068-2-64) • Sinusoidal Vibration: Operating, 1 Grms, 10-500 Hz, 3 Axes (w/ External Fan & SSD, according to IEC60068-2-6)
EMC	• CE, UKCA, FCC, ICES-003 Class A
EMI	• CISPR 32 Conducted & Radiated: Class A • EN/BS EN 55032 Conducted & Radiated: Class A • EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A • EN/BS EN61000-3-3 Voltage fluctuations & flicker • FCC 47 CFR Part 15B, ICES-003 Conducted & Radiated: Class A
EMS	• EN/IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV • EN/IEC 61000-4-3 RS: 80 MHz to 1000 MHz: 10 V/m • EN/IEC 61000-4-4 EFT: AC Power: 2 kV; DC Power: 1 kV; Signal: 1 kV • EN/IEC 61000-4-5 Surges: AC Power: 2 kV; Signal: 1 kV • EN/IEC 61000-4-6 CS: 10V • EN/IEC 61000-4-8 PFMF: 50 Hz, 30A/m • EN/IEC 61000-4-11 Voltage Dips & Voltage Interruptions: 1 cycles at 60 Hz
Industrial Environment	• EMC - EN/BS/IEC 61000-6-4: 2019 Class A - EN/BS/IEC 61000-6-2: 2019
Safety	• UL, cUL, CB, IEC, EN 62368-1

External Layout

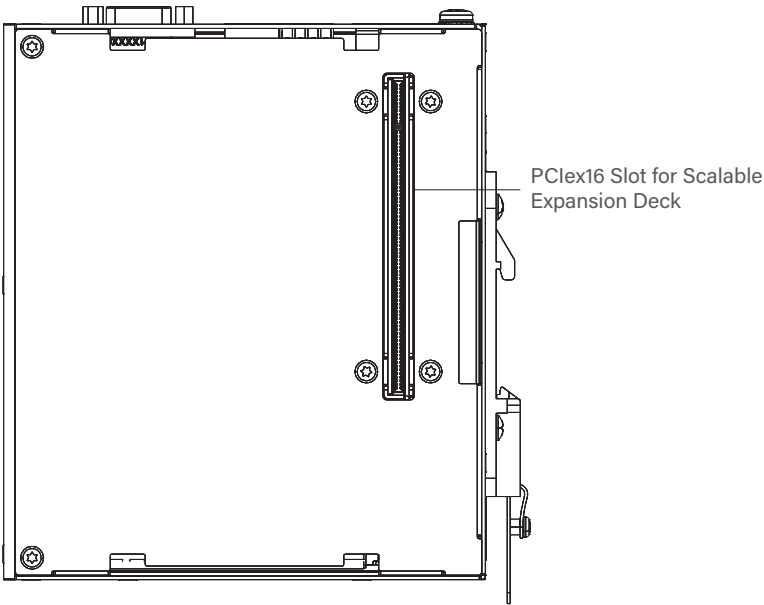
Front I/O



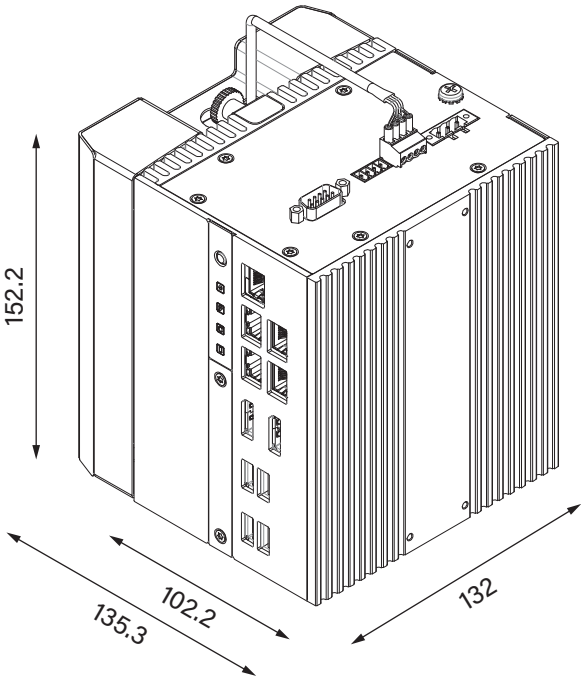
Top I/O



R-Side I/O



Dimensions



Unit: mm

Ordering Information

Available Models

Model No.	Description
MD-3000-R11	14/13/12th Generation Intel Core Series Processors, High Performance and Scalable DIN-Rail Computer

Package Checklist

• MD-3000 DIN-Rail Computer x1	• CPU Heatsink Kit x1
• Screw Pack x1	• Power Terminal Block Connector x1
• Remote Function Terminal Block Connector x 1	

Optional Scalable Expansion Deck

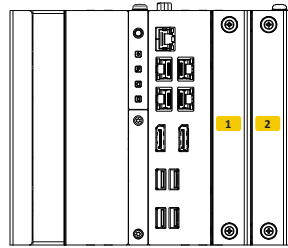
Model No.	Description
SED-201-R11	2-Slot Scalable Expansion Deck, Supports up to 2 I/O Modules
SED-401-R11	4-Slot Scalable Expansion Deck, Supports up to 4 I/O Modules
SED-402-R11	4-Slot Scalable Expansion Deck, Supports up to 2 I/O Modules and 2 Storage Modules
SED-601-R11	6-Slot Scalable Expansion Deck, Supports up to 4 I/O Modules and 2 Storage Modules

Optional Scalable Expansion Module

Model No.	Description
SEM-LAN101-R10	Scalable Expansion Module with 4x 1GbE LAN Ports, RJ45 Connector, 1 Deck
SEM-MLAN101-R10	Scalable Expansion Module with 4x 1GbE LAN Ports, M12 A-Coded Connector, 1 Deck
SEM-POE201-R10	Scalable Expansion Module with 4x 1GbE PoE Ports, RJ45 Connector, 2 Decks
SEM-MPOE201-R10	Scalable Expansion Module with 4x 1GbE PoE Ports, M12 A-Coded Connector, 2 Decks
SEM-10GLAN101-R10	Scalable Expansion Module with 2x 10GbE LAN Ports, RJ45 Connector, 1 Deck
SEM-10GPOE201-R10	Scalable Expansion Module with 2x 10GbE PoE Ports, RJ45 Connector, 2 Decks
SEM-USB101-R10	Scalable Expansion Module with 4x USB3.2 Gen1 (5Gbps), Type A, 1 Deck
SEM-COM101-R10	Scalable Expansion Module with 2x RS-232/422/485, (Supports 5V/12V), DB9, 1 Deck
SEM-ICOM101-R10	Scalable Expansion Module with 2x Isolated RS-232/422/485, (Supports 5V/12V), DB9, 1 Deck
SEM-DIO101-R10	Scalable Expansion Module with 16x Isolated DIO (8-in/8-out), 20-pin Terminal Block, 1 Deck
SEM-M2B101-R10	Scalable Expansion Module with 1x M.2 Key B Socket Type 2242/3052/2260/2280, 1 Deck
SEM-M2E101-R10	Scalable Expansion Module with 1x M.2 Key E Socket Type 2230, 1 Deck
SEM-SAT101-R10	Scalable Expansion Module with 1x 2.5" HDD/SSD SATA Drive Bay, 1 Deck

Optional Accessories

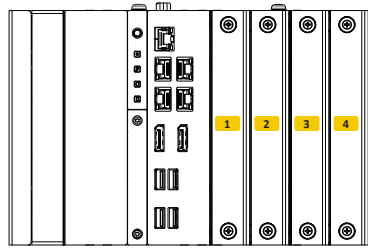
Model No.	Description
SDR-480-24	DIN Rail Power Supplies 480W 24V 20A PFC Function, SDR-480-24
Power Cable	1M Power Cable with 3-Pin Terminal Block Plug, Stripped and Tinned End with Tube
WALL01-R10	Wall Mount Kit for DA & MD Series

Optional Module Configuration – SED-201


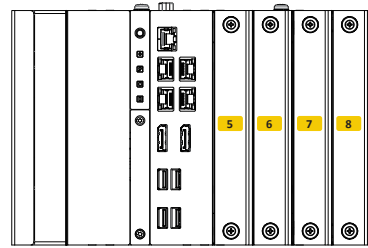
MD-3000 with SED-201

Model No.	Description	1	2
SEM-LAN101-R10 	Scalable Expansion Module with 4x 1GbE LAN Ports, RJ45 Connector, 1 Deck * Maximum 1x 1GbE LAN or PoE module can be installed at a time.	V	V
SEM-MLAN101-R10 	Scalable Expansion Module with 4x 1GbE LAN Ports, M12 A-Coded Connector, 1 Deck * Maximum 1x 1GbE LAN or PoE module can be installed at a time.	V	V
SEM-10GLAN101-R10 	Scalable Expansion Module with 2x 10GbE LAN Ports, RJ45 Connector, 1 Deck	V	V
SEM-POE201-R10 	Scalable Expansion Module with 4x 1GbE PoE Ports, RJ45 Connector, 2 Decks * Maximum 1x 1GbE LAN or PoE module can be installed at a time.	V	
SEM-MPOE201-R10 	Scalable Expansion Module with 4x 1GbE PoE Ports, M12 A-Coded Connector, 2 Decks * Maximum 1x 1GbE LAN or PoE module can be installed at a time.	V	
SEM-10GPOE201-R10 	Scalable Expansion Module with 2x 10GbE PoE Ports, RJ45 Connector, 2 Decks	V	
SEM-USB101-R10 	Scalable Expansion Module with 4x USB3.2 Gen1 (5Gbps), Type A, 1 Deck	V	V
SEM-COM101-R10 	Scalable Expansion Module with 2x RS-232/422/485, (Supports 5V/12V), DB9, 1 Deck	V	V
SEM-ICOM101-R10 	Scalable Expansion Module with 2x Isolated RS-232/422/485, (Supports 5V/12V), DB9, 1 Deck	V	V
SEM-DIO101-R10 	Scalable Expansion Module with 16x Isolated DIO (8-in/8-out), 20-pin Terminal Block, 1 Deck	V	V
SEM-M2B101-R10 	Scalable Expansion Module with 1x M.2 Key B Socket Type 2242/3052/2260/2280, 1 Deck	V	V
SEM-M2E101-R10 	Scalable Expansion Module with 1x M.2 Key E Socket Type 2230, 1 Deck	V	V
SEM-SAT101-R10 	Scalable Expansion Module with 1x 2.5" HDD/SSD SATA Drive Bay, 1 Deck	-	-

Optional Module Configuration - SED-401 / SED-402



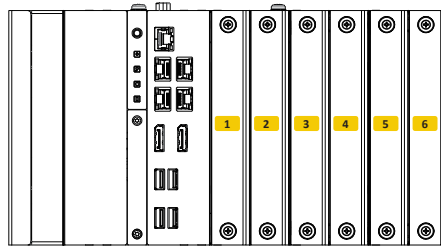
MD-3000 with SED-401



MD-3000 with SED-402

Model No.	Description	1	2	3	4	5	6	7	8
SEM-LAN101-R10 	Scalable Expansion Module with 4x 1GbE LAN Ports, RJ45 Connector, 1 Deck * Maximum 1x 1GbE LAN or PoE module can be installed at a time.	V	V	V	V	V	V	-	-
SEM-MLAN101-R10 	Scalable Expansion Module with 4x 1GbE LAN Ports, M12 A-Coded Connector, 1 Deck * Maximum 1x 1GbE LAN or PoE module can be installed at a time.	V	V	V	V	V	V	-	-
SEM-10GLAN101-R10 	Scalable Expansion Module with 2x 10GbE LAN Ports, RJ45 Connector, 1 Deck	V	V	V	V	V	V	-	-
SEM-POE201-R10 	Scalable Expansion Module with 4x 1GbE PoE Ports, RJ45 Connector, 2 Decks * Maximum 1x 1GbE LAN or PoE module can be installed at a time.	V		V		V		-	-
SEM-MPOE201-R10 	Scalable Expansion Module with 4x 1GbE PoE Ports, M12 A-Coded Connector, 2 Decks * Maximum 1x 1GbE LAN or PoE module can be installed at a time.	V		V		V		-	-
SEM-10GPOE201-R10 	Scalable Expansion Module with 2x 10GbE PoE Ports, RJ45 Connector, 2 Decks	V		V		V		-	-
SEM-USB101-R10 	Scalable Expansion Module with 4x USB3.2 Gen1 (5Gbps), Type A, 1 Deck	V	V	V	V	V	V	-	-
SEM-COM101-R10 	Scalable Expansion Module with 2x RS-232/422/485, (Supports 5V/12V), DB9, 1 Deck	V	V	V	V	V	V	-	-
SEM-ICOM101-R10 	Scalable Expansion Module with 2x Isolated RS-232/422/485, (Supports 5V/12V), DB9, 1 Deck	V	V	V	V	V	V	-	-
SEM-DIO101-R10 	Scalable Expansion Module with 16x Isolated DIO (8-in/8-out), 20-pin Terminal Block, 1 Deck	V	V	V	V	V	V	-	-
SEM-M2B101-R10 	Scalable Expansion Module with 1x M.2 Key B Socket Type 2242/3052/2260/2280, 1 Deck	V	V	V	V	V	V	-	-
SEM-M2E101-R10 	Scalable Expansion Module with 1x M.2 Key E Socket Type 2230, 1 Deck	V	V	V	V	V	V	-	-
SEM-SAT101-R10 	Scalable Expansion Module with 1x 2.5" HDD/SSD SATA Drive Bay, 1 Deck	-	-	-	-	-	-	V	V

Optional Module Configuration – SED-601



MD-3000 with SED-601

Model No.	Description	1	2	3	4	5	6
SEM-LAN101-R10 	Scalable Expansion Module with 4x 1GbE LAN Ports, RJ45 Connector, 1 Deck * Maximum 1x 1GbE LAN or PoE module can be installed at a time.	V	V	V	V	-	-
SEM-MLAN101-R10 	Scalable Expansion Module with 4x 1GbE LAN Ports, M12 A-Coded Connector, 1 Deck * Maximum 1x 1GbE LAN or PoE module can be installed at a time.	V	V	V	V	-	-
SEM-10GLAN101-R10 	Scalable Expansion Module with 2x 10GbE LAN Ports, RJ45 Connector, 1 Deck	V	V	V	V	-	-
SEM-POE201-R10 	Scalable Expansion Module with 4x 1GbE PoE Ports, RJ45 Connector, 2 Decks * Maximum 1x 1GbE LAN or PoE module can be installed at a time.	V		V		-	-
SEM-MPOE201-R10 	Scalable Expansion Module with 4x 1GbE PoE Ports, M12 A-Coded Connector, 2 Decks * Maximum 1x 1GbE LAN or PoE module can be installed at a time.	V		V		-	-
SEM-10GPOE201-R10 	Scalable Expansion Module with 2x 10GbE PoE Ports, RJ45 Connector, 2 Decks	V		V		-	-
SEM-USB101-R10 	Scalable Expansion Module with 4x USB3.2 Gen1 (5Gbps), Type A, 1 Deck	V	V	V	V	-	-
SEM-COM101-R10 	Scalable Expansion Module with 2x RS-232/422/485, (Supports 5V/12V), DB9, 1 Deck	V	V	V	V	-	-
SEM-ICOM101-R10 	Scalable Expansion Module with 2x Isolated RS-232/422/485, (Supports 5V/12V), DB9, 1 Deck	V	V	V	V	-	-
SEM-DIO101-R10 	Scalable Expansion Module with 16x Isolated DIO (8-in/8-out), 20-pin Terminal Block, 1 Deck	V	V	V	V	-	-
SEM-M2B101-R10 	Scalable Expansion Module with 1x M.2 Key B Socket Type 2242/3052/2260/2280, 1 Deck	V	V	V	V	-	-
SEM-M2E101-R10 	Scalable Expansion Module with 1x M.2 Key E Socket Type 2230, 1 Deck	V	V	V	V	-	-
SEM-SAT101-R10 	Scalable Expansion Module with 1x 2.5" HDD/SSD SATA Drive Bay, 1 Deck	-	-	-	-	V	V