

# 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)

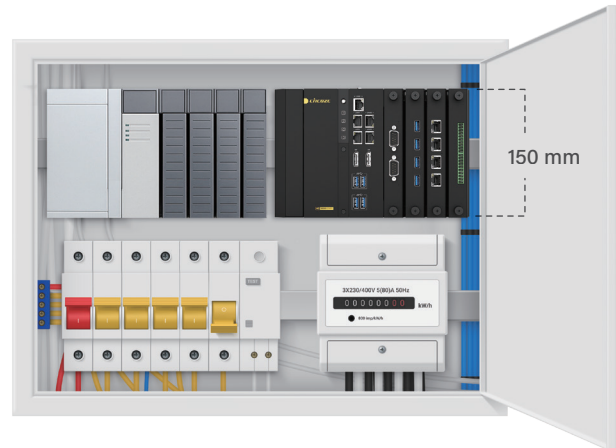


### Easy to Configure & Plug and Play

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

### 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.



EN 61000-6-2



EN 61000-6-4

## Specifications

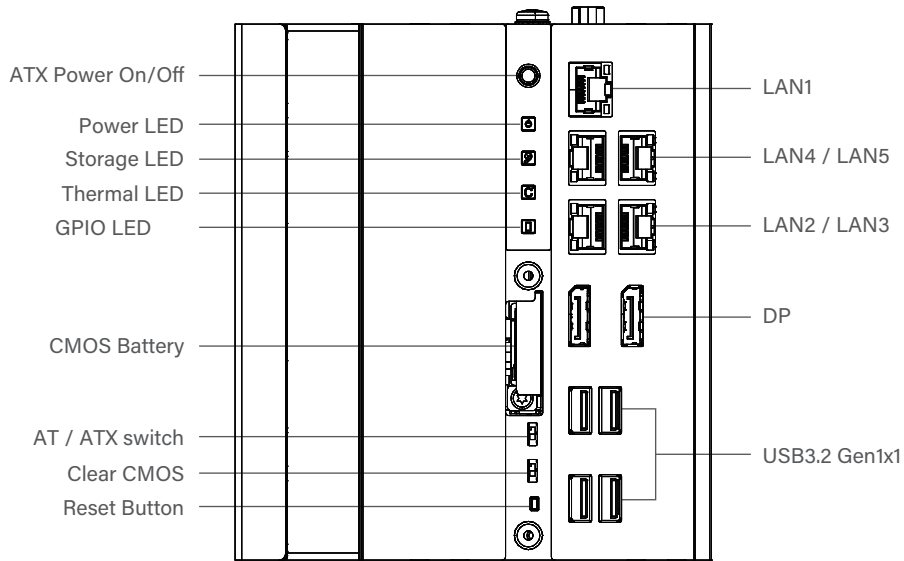
| Model Name             | MD-3000   |
|------------------------|---|
| <b>System</b>          |   |
| Processor              | <ul style="list-style-type: none"> <li>• 14th Generation Intel® Raptor Lake-S Refresh Series CPU:                             <ul style="list-style-type: none"> <li>- Intel® Core™ i9-14900 24 Cores Up to 5.8 GHz, TDP 65W</li> <li>- Intel® Core™ i7-14700 20 Cores Up to 5.4 GHz, TDP 65W</li> <li>- Intel® Core™ i5-14500 14 Cores Up to 5.0 GHz, TDP 65W</li> <li>- Intel® Core™ i5-14400 10 Cores Up to 4.7 GHz, TDP 65W</li> <li>- Intel® Core™ i3-14100 4 Cores Up to 4.7 GHz, TDP 60W</li> <li>- Intel® Core™ i9-14901E 8 Cores Up to 5.6 GHz, TDP 65W</li> <li>- Intel® Core™ i7-14701E 8 Cores Up to 5.4 GHz, TDP 65W</li> <li>- Intel® Core™ i5-14501E 6 Cores Up to 5.2 GHz, TDP 65W</li> <li>- Intel® Core™ i5-14401E 6 Cores Up to 4.7 GHz, TDP 65W</li> <li>- Intel® Core™ i9-14900T 24 Cores Up to 5.5 GHz, TDP 35W</li> <li>- Intel® Core™ i7-14700T 20 Cores Up to 5.2 GHz, TDP 35W</li> <li>- Intel® Core™ i5-14500T 14 Cores Up to 4.8 GHz, TDP 35W</li> <li>- Intel® Core™ i5-14400T 10 Cores Up to 4.5 GHz, TDP 35W</li> <li>- Intel® Core™ i3-14100T 4 Cores Up to 4.4 GHz, TDP 35W</li> <li>- Intel® Core™ i9-14901TE 8 Cores Up to 5.5 GHz, TDP 45W</li> <li>- Intel® Core™ i7-14701TE 8 Cores Up to 5.2 GHz, TDP 45W</li> <li>- Intel® Core™ i5-14501TE 6 Cores Up to 5.1 GHz, TDP 45W</li> <li>- Intel® Core™ i5-14401TE 6 Cores Up to 4.5 GHz, TDP 45W</li> <li>- Intel® Processor 300 2 Cores Up to 3.9 GHz, TDP 46W</li> <li>- Intel® Processor 300T 2 Cores Up to 3.4 GHz, TDP 35W</li> </ul> </li> <li>• 13th Generation Intel® Raptor Lake-S Series CPU:                             <ul style="list-style-type: none"> <li>- Intel® Core™ i9-13900E 24 Cores Up to 5.2 GHz, TDP 65W</li> <li>- Intel® Core™ i7-13700E 16 Cores Up to 5.1 GHz, TDP 65W</li> <li>- Intel® Core™ i5-13500E 14 Cores Up to 4.6 GHz, TDP 65W</li> <li>- Intel® Core™ i5-13400E 10 Cores Up to 4.6 GHz, TDP 65W</li> <li>- Intel® Core™ i3-13100E 4 Cores Up to 4.4 GHz, TDP 65W</li> <li>- Intel® Core™ i9-13900TE 24 Cores Up to 5.0 GHz, TDP 35W</li> <li>- Intel® Core™ i7-13700TE 16 Cores Up to 4.8 GHz, TDP 35W</li> <li>- Intel® Core™ i5-13500TE 14 Cores Up to 4.5 GHz, TDP 35W</li> <li>- Intel® Core™ i3-13100TE 4 Cores Up to 4.1 GHz, TDP 35W</li> </ul> </li> <li>• 12th Generation Intel® Alder Lake-S Series CPU:                             <ul style="list-style-type: none"> <li>- Intel® Core™ i9-12900E 16 Cores Up to 5 GHz, TDP 65W</li> <li>- Intel® Core™ i7-12700E 12 Cores Up to 4.8 GHz, TDP 65W</li> <li>- Intel® Core™ i5-12500E 6 Cores Up to 4.5 GHz, TDP 65W</li> <li>- Intel® Core™ i3-12100E 4 Cores Up to 4.2 GHz, TDP 60W</li> <li>- Intel® Core™ i9-12900TE 16 Cores Up to 4.8 GHz, TDP 35W</li> <li>- Intel® Core™ i7-12700TE 12 Cores Up to 4.7 GHz, TDP 35W</li> <li>- Intel® Core™ i5-12500TE 6 Cores Up to 4.3 GHz, TDP 35W</li> <li>- Intel® Core™ i3-12100TE 4 Cores Up to 4.0 GHz, TDP 35W</li> <li>- Intel® Pentium® G7400E 2 Cores Up to 3.6 GHz, TDP 46W</li> <li>- Intel® Pentium® G7400TE 2 Cores Up to 3.0 GHz, TDP 35W</li> <li>- Intel® Celeron® G6900E 2 Cores Up to 3.0 GHz, TDP 46W</li> <li>- Intel® Celeron® G6900TE 2 Cores Up to 2.4 GHz, TDP 35W</li> </ul> </li> </ul> |
| Chipset                | <ul style="list-style-type: none"> <li>• Intel R680E Chipset</li> </ul>   |
| Memory                 | <ul style="list-style-type: none"> <li>• 2x DDR5 SO-DIMM sockets, support Un-buffered and ECC Type memory, up to 96GB</li> <li>- Core™ i9/i7: Support 5600/4800 MHz with Single Rank memory and 5200/4800 MHz with Dual Rank memory.</li> <li>- Core™ i5/i3/Pentium®/Celeron®/Intel® Processor: Support 4800 MHz.</li> </ul>  |
| BIOS                   | <ul style="list-style-type: none"> <li>• AMI BIOS</li> </ul>  |
| <b>Graphics</b>        |   |
| Graphics Engine        | <ul style="list-style-type: none"> <li>• Integrated Intel® UHD Graphics 770: Core™ i9/i7/i5</li> <li>• Integrated Intel® UHD Graphics 730: Core™ i3</li> <li>• Integrated Intel® UHD Graphics 710: Pentium®/Celeron®/Intel® Processor</li> </ul>  |
| Maximum Display Output | <ul style="list-style-type: none"> <li>• Supports Dual Independent Display</li> </ul>   |
| Display Port           | <ul style="list-style-type: none"> <li>• 2x DisplayPort Connector: 4096 x 2304 @ 60Hz</li> <li>* Verified maximum DP resolution: 3840x2160 @ 60Hz</li> </ul>  |

|                                     |   |
|-------------------------------------|---|
| <b>I/O</b>                          |   |
| LAN                                 | <ul style="list-style-type: none"> <li>• 5x GbE LAN, RJ45</li> <li>- GbE1: Intel® I219</li> <li>- GbE2~5: Intel® I210</li> </ul>  |
| COM                                 | <ul style="list-style-type: none"> <li>• 1x RS-232/422/485 with Auto Flow Control (Supports 5V/12V), DB9</li> </ul>   |
| USB                                 | <ul style="list-style-type: none"> <li>• 4x USB 3.2 Gen1x1(5Gpbs), Type A</li> </ul>  |
| <b>Storage / Expansion</b>          |   |
| M.2 Key M Socket                    | <ul style="list-style-type: none"> <li>• 1x M.2 Key M Type 2280 Socket (PCIe Gen3 x4), Support Storage / Add-on Card Expansion</li> <li>• 1x M.2 Key M Type 2280 Socket (PCIe Gen3 x4 / SATA 3.0), Support Storage / Add-on Card Expansion</li> </ul> |
| Expansion Deck                      | <ul style="list-style-type: none"> <li>• 1x PCIe16 interface for Optional Scalable Expansion Deck</li> </ul>  |
| <b>Other Function</b>               |   |
| RAID                                | <ul style="list-style-type: none"> <li>• Supports RAID 0/1/5/10</li> </ul>  |
| External FAN Connector              | <ul style="list-style-type: none"> <li>• 1x External FAN Connector (Support Smart Fan by BIOS)</li> </ul>   |
| Clear CMOS Switch                   | <ul style="list-style-type: none"> <li>• 1x Clear CMOS Switch</li> </ul>  |
| Reset Button                        | <ul style="list-style-type: none"> <li>• 1x Reset Button</li> </ul>   |
| Watchdog Timer                      | <ul style="list-style-type: none"> <li>• Software Programmable, Supports 256 Levels System Reset</li> </ul>   |
| Status LED Indicator                | <ul style="list-style-type: none"> <li>• Power LED</li> <li>• Storage LED</li> <li>• Thermal LED</li> <li>• GPIO LED</li> </ul>   |
| <b>Power</b>                        |   |
| Power Button                        | <ul style="list-style-type: none"> <li>• 1x ATX Power On/Off Button</li> </ul>  |
| Power Mode Switch                   | <ul style="list-style-type: none"> <li>• 1x AT/ATX Mode Switch</li> </ul>   |
| Power Input                         | <ul style="list-style-type: none"> <li>• 9 - 48VDC, 3-pin Terminal Block</li> </ul>   |
| Remote Power On/Off                 | <ul style="list-style-type: none"> <li>• 1x Remote Power On/Off, 2-pin Terminal Block</li> </ul>  |
| Remote Power LED                    | <ul style="list-style-type: none"> <li>• 1x Remote Power LED, 2-pin Terminal Block</li> </ul>   |
| Max Power Consumption               | <ul style="list-style-type: none"> <li>• 35W CPU: 195.2W</li> <li>• 65W CPU: 279.4W</li> <li>- Test conducted with CPU, 1x RAM, and 1x storage</li> <li>- 100% load during burn-in testing</li> </ul>   |
| Inrush Current (Peak)               | <ul style="list-style-type: none"> <li>• 35W CPU: 9.0A@24V</li> <li>• 65W CPU: 9.026A@24V</li> </ul>  |
| <b>Physical</b>                     |   |
| Dimension ( W x D x H )             | <ul style="list-style-type: none"> <li>• 135.5 x 132 x 152.2 mm</li> </ul>  |
| Weight Information                  | <ul style="list-style-type: none"> <li>• 3.03 kg</li> </ul>   |
| Mechanical Construction             | <ul style="list-style-type: none"> <li>• Extruded Aluminum with Heavy Duty Metal</li> </ul>   |
| Mounting                            | <ul style="list-style-type: none"> <li>• Wall / DIN-RAIL Mount</li> </ul>   |
| Physical Design                     | <ul style="list-style-type: none"> <li>• Cableless Design</li> <li>• Jumper-less Design</li> </ul>  |
| <b>Reliability &amp; Protection</b> |   |
| Reverse Power Input Protection      | <ul style="list-style-type: none"> <li>• Yes</li> </ul>   |
| Over Voltage Protection             | <ul style="list-style-type: none"> <li>• Protection Range: 51~58V</li> <li>• Protection Type: shut down operating voltage, re-power on at the preset level to recover</li> </ul>  |
| Over Current Protection             | <ul style="list-style-type: none"> <li>• 15A</li> </ul>   |

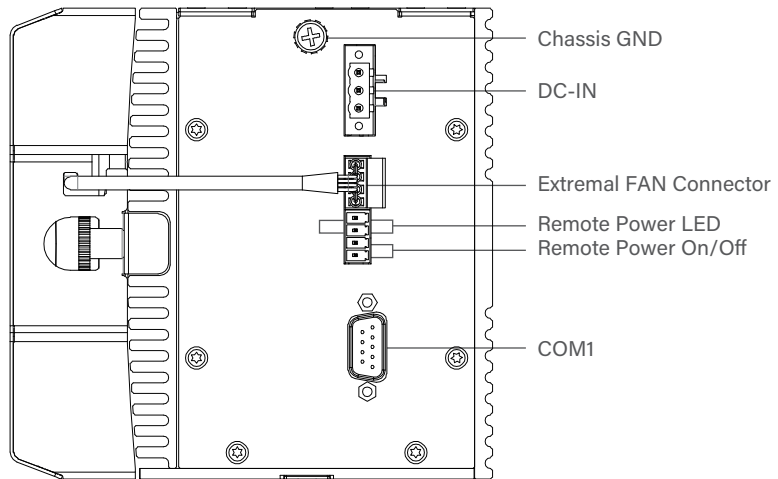
|                         |  |
|-------------------------|--|
| CMOS Battery Backup     | <ul style="list-style-type: none"> <li>• SuperCap Integrated for CMOS Battery Maintenance-free Operation</li> </ul>  |
| MTBF                    | <ul style="list-style-type: none"> <li>• 356,683 Hours</li> <li>- Database: Telcordia SR-332 Issue3, Method 1, Case 3</li> </ul>   |
| <b>Operating System</b> |  |
| Windows                 | <ul style="list-style-type: none"> <li>• Windows® 10, Windows® 11</li> </ul>   |
| Linux                   | <ul style="list-style-type: none"> <li>• Ubuntu 22.04</li> </ul>   |
| <b>Environment</b>      |  |
| Operating Temperature   | <ul style="list-style-type: none"> <li>• 35W TDP Processor: -40°C to 65°C (-40 °F to 149°F)</li> <li>• 45W TDP Processor: -40°C to 55°C (-40°F to 131°F)</li> <li>• 65W TDP Processor: -40°C to 45°C (-40°F to 113°F)</li> <li>* PassMark BurnInTest: 100% CPU, 2D/3D Graphics (without thermal throttling)</li> <li>* With external fan, extended temperature peripherals; Ambient with air flow</li> <li>* According to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14</li> </ul>           |
| Storage Temperature     | <ul style="list-style-type: none"> <li>• -40°C to 85°C (-40 °F to 185°F)</li> </ul>  |
| Relative Humidity       | <ul style="list-style-type: none"> <li>• 95%@65°C</li> </ul>   |
| Shock                   | <ul style="list-style-type: none"> <li>• Operating, 30 Grms, Half-sine 11 ms Duration (w/ External Fan &amp; SSD, according to IEC60068-2-27)</li> </ul>   |
| Vibration               | <ul style="list-style-type: none"> <li>• Random Vibration: Operating, 3 Grms, 5-500 Hz, 3 Axes (w/SSD, according to IEC60068-2-64)</li> <li>• Sinusoidal Vibration: Operating, 1 Grms, 10-500 Hz, 3 Axes (w/ External Fan &amp; SSD, according to IEC60068-2-6)</li> </ul>   |
| EMC                     | <ul style="list-style-type: none"> <li>• CE, UKCA, FCC, ICES-003 Class A</li> </ul>  |
| EMI                     | <ul style="list-style-type: none"> <li>• CISPR 32 Conducted &amp; Radiated: Class A</li> <li>• EN/BS EN 55032 Conducted &amp; Radiated: Class A</li> <li>• EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A</li> <li>• EN/BS EN61000-3-3 Voltage fluctuations &amp; flicker</li> <li>• FCC 47 CFR Part 15B, ICES-003 Conducted &amp; Radiated: Class A</li> </ul>  |
| EMS                     | <ul style="list-style-type: none"> <li>• EN/IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV</li> <li>• EN/IEC 61000-4-3 RS: 80 MHz to 1000 MHz: 10 V/m</li> <li>• EN/IEC 61000-4-4 EFT: AC Power: 2 kV; DC Power: 1 kV; Signal: 1 kV</li> <li>• EN/IEC 61000-4-5 Surges: AC Power: 2 kV; Signal: 1 kV</li> <li>• EN/IEC 61000-4-6 CS: 10V</li> <li>• EN/IEC 61000-4-8 PFMF: 50 Hz, 30A/m</li> <li>• EN/IEC 61000-4-11 Voltage Dips &amp; Voltage Interruptions: 1 cycles at 60 Hz</li> </ul> |
| Industrial Environment  | <ul style="list-style-type: none"> <li>• EMC</li> <li>- EN/BS/IEC 61000-6-4: 2019 Class A</li> <li>- EN/BS/IEC 61000-6-2: 2019</li> </ul>  |
| Safety                  | <ul style="list-style-type: none"> <li>• UL, cUL, CB, IEC, EN 62368-1</li> </ul>   |

**External Layout**

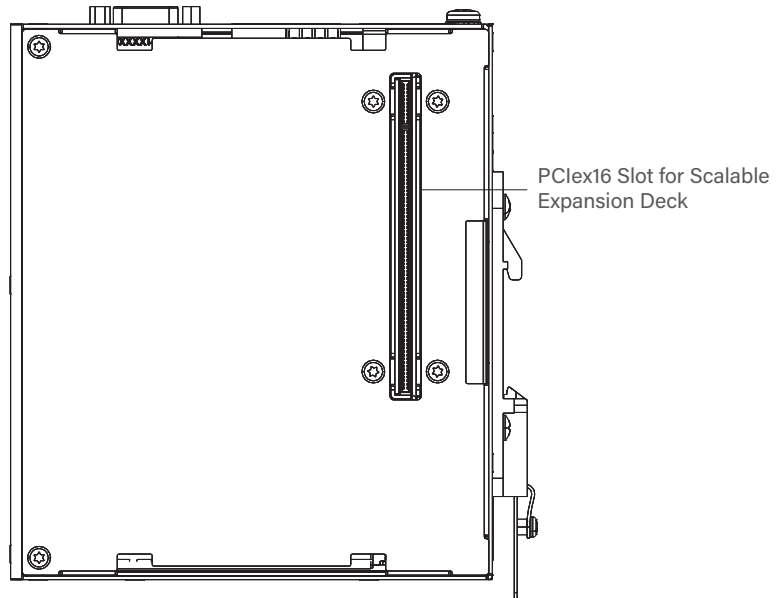
Front I/O



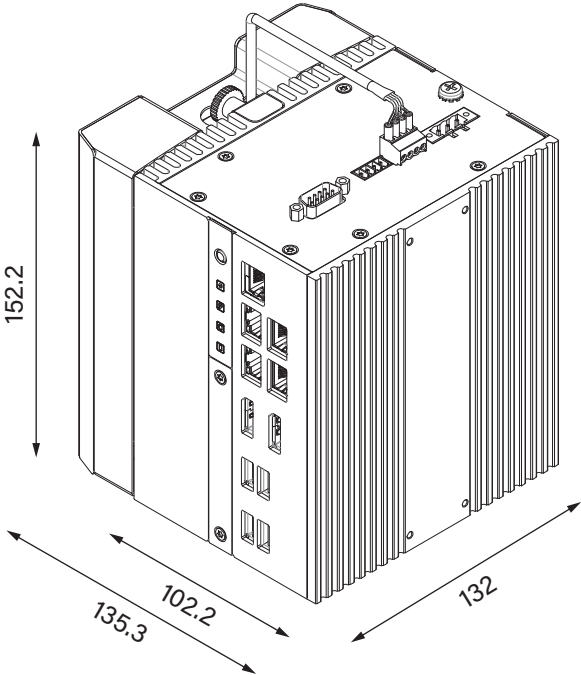
Top I/O



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 |

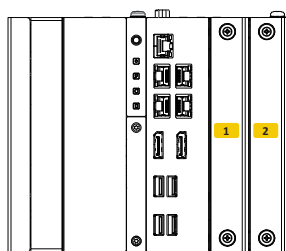
### Optional Scalable Expansion Module

| 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**

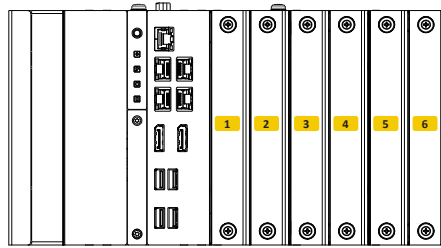


MD-3000 with SED-201













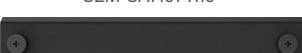
| Model No.  | Description   | 1 | 2 |
|--|---|---|---|
| SEM-LAN101-R10<br>      | Scalable Expansion Module with 4x 1GbE LAN Ports, RJ45 Connector, 1 Deck<br>* Maximum 1x 1GbE LAN or PoE module can be installed at a time.         | V | V |
| SEM-MLAN101-R10<br>     | Scalable Expansion Module with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



**Optional Module Configuration - SED-601**



MD-3000 with SED-601

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