

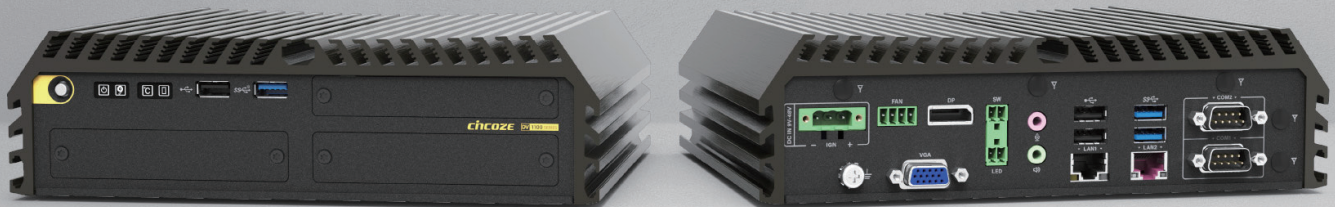
# DV-1100

14/13/12th Gen. Intel® Core™ Series High Performance and Basic Function Rugged Embedded Computer



## HIGH-PERFORMANCE | COST-EFFECTIVE

DV-1100, a 14/13/12th Gen Intel Core Series Rugged Computer



### Overview

[CONTACT](#)

The DV-1100 is a compact, high-performance, embedded edge computer that supports 14/13/12th generation Intel® processors. Its balance between high-performance computing needs and cost-effectiveness enables enterprises to quickly analyze and process edge data for better decision-making and improved production efficiency and accuracy. The DV-1100 is ideal for smart manufacturing, machine vision, railway computing, and space-constrained applications where stability and reliability are paramount.

### Key Features

- Intel® 14/13/12th Gen. Core™ i9/i7/i5/i3 Processors (max 65 W TDP)
- 1x M.2 Key M Type 2280 Socket for PCIe Gen 4x4 NVMe Storage
- 1x M.2 Key E Type 2230 Socket for Storage/Wireless/Bluetooth/Intel CNVi Module Expansion
- 1x M.2 Key B Type 3052/3042 Socket for 5G/Storage/GNSS/Add-on Card Expansion
- 1x M.2 Key B Type 2242 Socket for Storage/GNSS /Add-on Card Expansion
- Optional CMI & CFM Modules for I/O Expansion & Power Ignition Sensing Function
- Wide operating temperature -40°C to 70°C
- Safety Standard: UL, cUL, CB, IEC, EN 62368-1

### Certifications



## Balancing Performance and Cost

The DV-1100 has a compact body and supports a 14/13/12th generation Intel® Core™ processor. It provides sufficient computing performance for multitasking and diverse applications while balancing performance and cost.

## 14 / 13 / 12th Gen

### Intel Core Series

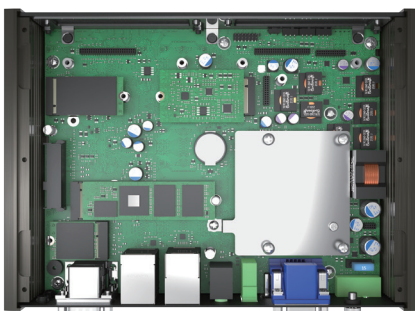


## Compact Size

The DV-1100 measures only 224.1 x 162 x 62mm, making it easy to install anywhere, including in space-constrained applications.

## Stunning Transfer and Access Speeds

The DV-1100 has high-speed I/O interfaces, including 2.5G LAN and 10Gbps USB 3.2 Gen2x1. Storage support includes 2.5" HDD/SSD and high-speed NVMe SSD.



## Excellent Extension Design

The DV-1100 has built-in M.2 Key B, M.2 Key E, and M.2 Key M slots for flexible wireless (5G, Wi-Fi, GNSS) and storage selection according to application requirements.

## Various Industry Certifications

The DV-1100's rugged design meets various industrial-grade and industrial certifications, such as EMC standards in industrial environments (EN 61000-6-2/4), US military shock vibration standards (MIL-STD-810H), railway computing EN50155 (EN 50121-3-2 only), and more.



Specifications

| Model Name | DV-1100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Processor  | <div><div><div>• 14th Generation Intel® Raptor Lake-S Refresh Series P-Core Only CPU:</div><div><div>- Intel® Core™ i9-14901E 8 Cores Up to 5.6 GHz, TDP 65W</div><div>- Intel® Core™ i7-14701E 8 Cores Up to 5.4 GHz, TDP 65W</div><div>- Intel® Core™ i5-14501E 6 Cores Up to 5.2 GHz, TDP 65W</div><div>- Intel® Core™ i5-14401E 6 Cores Up to 4.7 GHz, TDP 65W</div><div>- Intel® Core™ i3-14100 4 Cores Up to 4.7 GHz, TDP 60W</div><div>- Intel® Core™ i9-14901TE 8 Cores Up to 5.5 GHz, TDP 45W</div><div>- Intel® Core™ i7-14701TE 8 Cores Up to 5.2 GHz, TDP 45W</div><div>- Intel® Core™ i5-14501TE 6 Cores Up to 5.1 GHz, TDP 45W</div><div>- Intel® Core™ i5-14401TE 6 Cores Up to 4.5 GHz, TDP 45W</div><div>- Intel® Core™ i3-14100T 4 Cores Up to 4.4 GHz, TDP 35W</div><div>- Intel® Processor 300 2 Cores Up to 3.9 GHz, TDP 46W</div><div>- Intel® Processor 300T 2 Cores Up to 3.4 GHz, TDP 35W</div></div></div><div><div>• 14th Generation Intel® Raptor Lake-S Refresh Series Hybrid CPU:</div><div><div>- Intel® Core™ i9-14900 24 Cores Up to 5.8 GHz, TDP 65W</div><div>- Intel® Core™ i7-14700 20 Cores Up to 5.4 GHz, TDP 65W</div><div>- Intel® Core™ i5-14500 14 Cores Up to 5.0 GHz, TDP 65W</div><div>- Intel® Core™ i5-14400 10 Cores Up to 4.7 GHz, TDP 65W</div><div>- Intel® Core™ i9-14900T 24 Cores Up to 5.5 GHz, TDP 35W</div><div>- Intel® Core™ i7-14700T 20 Cores Up to 5.2 GHz, TDP 35W</div><div>- Intel® Core™ i5-14500T 14 Cores Up to 4.8 GHz, TDP 35W</div><div>- Intel® Core™ i5-14400T 10 Cores Up to 4.5 GHz, TDP 35W</div></div></div><div><div>• 13th Generation Intel® Raptor Lake-S Series P-Core Only CPU:</div><div><div>- Intel® Core™ i3-13100E 4 Cores Up to 4.4 GHz, TDP 60W</div><div>- Intel® Core™ i3-13100 4 Cores Up to 4.5 GHz, TDP 60W</div><div>- Intel® Core™ i3-13100TE 4 Cores Up to 4.1 GHz, TDP 35W</div><div>- Intel® Core™ i3-13100T 4 Cores Up to 4.2 GHz, TDP 35W</div></div></div><div><div>• 13th Generation Intel® Raptor Lake-S Series Hybrid CPU:</div><div><div>- Intel® Core™ i9-13900E 24 Cores Up to 5.2 GHz, TDP 65W</div><div>- Intel® Core™ i9-13900 24 Cores Up to 5.6 GHz, TDP 65W</div><div>- Intel® Core™ i7-13700E 16 Cores Up to 5.1 GHz, TDP 65W</div><div>- Intel® Core™ i7-13700 16 Cores Up to 5.2 GHz, TDP 65W</div><div>- Intel® Core™ i5-13500E 14 Cores Up to 4.6 GHz, TDP 65W</div><div>- Intel® Core™ i5-13400E 10 Cores Up to 4.6 GHz, TDP 65W</div><div>- Intel® Core™ i5-13500 14 Cores Up to 4.8 GHz, TDP 65W</div><div>- Intel® Core™ i5-13400 10 Cores Up to 4.6 GHz, TDP 65W</div><div>- Intel® Core™ i9-13900TE 24 Cores Up to 5.0 GHz, TDP 35W</div><div>- Intel® Core™ i7-13700TE 16 Cores Up to 4.8 GHz, TDP 35W</div><div>- Intel® Core™ i7-13700T 16 Cores Up to 4.9 GHz, TDP 35W</div><div>- Intel® Core™ i5-13500TE 14 Cores Up to 4.5 GHz, TDP 35W</div><div>- Intel® Core™ i5-13500T 14 Cores Up to 4.6 GHz, TDP 35W</div></div></div><div><div>• 12th Generation Intel® Alder Lake-S Series P-Core Only CPU:</div><div><div>- Intel® Core™ i5-12500E 6 Cores Up to 4.5 GHz, TDP 65W</div><div>- Intel® Core™ i5-12500 6 Cores Up to 4.6 GHz, TDP 65W</div><div>- Intel® Core™ i5-12400 6 Cores Up to 4.4 GHz, TDP 65W</div><div>- Intel® Core™ i3-12100E 4 Cores Up to 4.2 GHz, TDP 60W</div><div>- Intel® Core™ i3-12100 4 Cores Up to 4.3 GHz, TDP 60W</div><div>- Intel® Core™ i5-12500TE 6 Cores Up to 4.3 GHz, TDP 35W</div><div>- Intel® Core™ i3-12100TE 4 Cores Up to 4.0 GHz, TDP 35W</div><div>- Intel® Pentium® G7400E 2 Cores Up to 3.6 GHz, TDP 46W</div><div>- Intel® Pentium® G7400TE 2 Cores Up to 3.0 GHz, TDP 35W</div><div>- Intel® Celeron® G6900E 2 Cores Up to 3.0 GHz, TDP 46W</div><div>- Intel® Celeron® G6900TE 2 Cores Up to 2.4 GHz, TDP 35W</div><div>- Intel® Pentium® G7400 2 Cores Up to 3.7 GHz, TDP 46W</div><div>- Intel® Pentium® G7400T 2 Cores Up to 3.1 GHz, TDP 35W</div><div>- Intel® Celeron® G6900 2 Cores Up to 3.4 GHz, TDP 46W</div><div>- Intel® Celeron® G6900T 2 Cores Up to 2.8 GHz, TDP 35W</div></div></div><div><div>• 12th Generation Intel® Alder Lake-S Series Hybrid CPU:</div><div><div>- Intel® Core™ i9-12900E 16 Cores Up to 5 GHz, TDP 65W</div><div>- Intel® Core™ i9-12900 16 Cores Up to 5.1 GHz, TDP 65W</div><div>- Intel® Core™ i7-12700E 12 Cores Up to 4.8 GHz, TDP 65W</div><div>- Intel® Core™ i7-12700 12 Cores Up to 4.9 GHz, TDP 65W</div><div>- Intel® Core™ i9-12900TE 16 Cores Up to 4.8 GHz, TDP 35W</div><div>- Intel® Core™ i7-12700TE 12 Cores Up to 4.7 GHz, TDP 35W</div></div></div></div> |

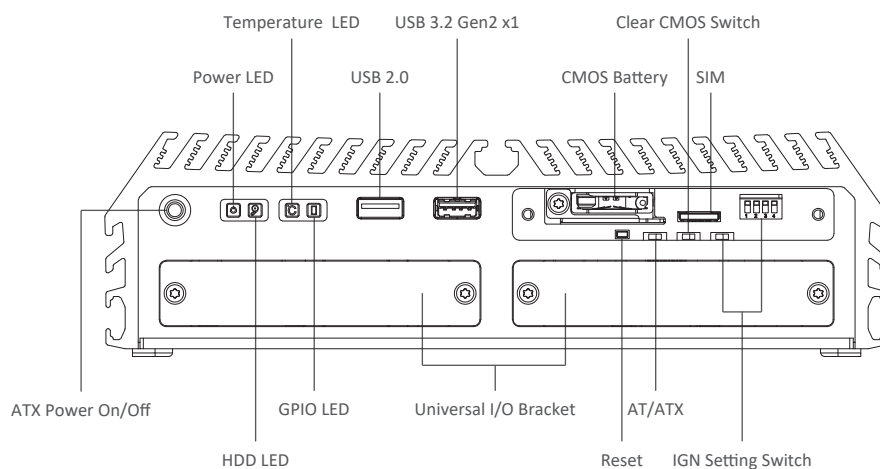
|                                                                                             |                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chipset                                                                                     | <ul style="list-style-type: none"> <li>Intel H610E Chipset</li> </ul>                                                                                                                                                                                                                                                           |
| Memory                                                                                      | <ul style="list-style-type: none"> <li>1x DDR5 SO-DIMM sockets, support Un-buffered and non-ECC Type memory, up to 48GB.</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®</li> </ul>                                                                                                       |
| Maximum Display Output                                                                      | <ul style="list-style-type: none"> <li>Supports Triple Independent Display</li> </ul>                                                                                                                                                                                                                                           |
| DP                                                                                          | <ul style="list-style-type: none"> <li>1x DisplayPort Connector: 3840 x 2160 @60Hz</li> </ul>                                                                                                                                                                                                                                   |
| VGA                                                                                         | <ul style="list-style-type: none"> <li>1x VGA Connector: 1920 x 1200 @60Hz</li> </ul>                                                                                                                                                                                                                                           |
| CMI Display                                                                                 | <ul style="list-style-type: none"> <li>1x CMI Interface for Optional CMI-DP/CMI-HDMI Module Expansion</li> </ul>                                                                                                                                                                                                                |
| <b>Audio</b>                                                                                |                                                                                                                                                                                                                                                                                                                                 |
| Audio Codec                                                                                 | <ul style="list-style-type: none"> <li>Realtek® ALC888, High Definition Audio</li> </ul>                                                                                                                                                                                                                                        |
| Line-out                                                                                    | <ul style="list-style-type: none"> <li>1x Line-out, Phone Jack 3.5mm</li> </ul>                                                                                                                                                                                                                                                 |
| Mic-in                                                                                      | <ul style="list-style-type: none"> <li>1x Mic-in, Phone Jack 3.5mm</li> </ul>                                                                                                                                                                                                                                                   |
|                                                                                             |                                                                                                                                                                                                                                                                                                                                 |
| LAN                                                                                         | <ul style="list-style-type: none"> <li>1x 2.5GbE LAN, RJ45</li> <li>- Intel® I226</li> <li>1x 1GbE LAN, RJ45</li> <li>- Intel® I219</li> </ul>                                                                                                                                                                                  |
| COM                                                                                         | <ul style="list-style-type: none"> <li>2x RS-232/422/485 with Auto Flow Control (Supports 5V/12V), DB9</li> </ul>                                                                                                                                                                                                               |
| USB                                                                                         | <ul style="list-style-type: none"> <li>1x 10Gbps USB3.2 Gen 2x1, Type A</li> <li>2x 5Gbps USB 3.2 Gen 1x1, Type A</li> <li>3x 480Mbps USB2.0, Type A</li> </ul>                                                                                                                                                                 |
| <b>Storage / Expansion</b>                                                                  |                                                                                                                                                                                                                                                                                                                                 |
|  Storage | <ul style="list-style-type: none"> <li>1x 2.5" SATA HDD/SSD Bay (SATA 3.0)</li> </ul>                                                                                                                                                                                                                                           |
| M.2 Key B Socket                                                                            | <ul style="list-style-type: none"> <li>1x M.2 Key B Type 3042/3052 Socket (PCIe Gen 3x2 / USB3.2 Gen2 x1 / SATA), Support 5G/GNSS/Storage/Add-on Card Expansion</li> <li>1x M.2 Key B Type 3042 (PCIe Gen 3x2 / USB2.0), Support Storage/Add-on Card Expansion</li> </ul>                                                       |
| M.2 Key E Socket                                                                            | <ul style="list-style-type: none"> <li>1x M.2 Key E Type 2230 Socket (PCIe Gen 3x2 / USB2.0 ), Support Storage/Wireless/Bluetooth/Intel CNVi Module Expansion</li> </ul>                                                                                                                                                        |
| M.2 Key M Socket                                                                            | <ul style="list-style-type: none"> <li>1x M.2 Key M Type 2280 Socket (PCIe Gen 4x4 / SATA), Support Storage/Add-on Card Expansion</li> </ul>                                                                                                                                                                                    |
| SIM Socket                                                                                  | <ul style="list-style-type: none"> <li>1 x Front Accessible Dual Nano SIM Socket</li> </ul>                                                                                                                                                                                                                                     |
| CMI (Combined Multiple I/O) Interface                                                       | <ul style="list-style-type: none"> <li>1x CMI Interface for optional CMI-Display Module Expansion</li> <li>2x CMI Interface for optional CMI-COM/DIO Module Expansion</li> </ul>                                                                                                                                                |
| CFM (Control Function Module) Interface                                                     | <ul style="list-style-type: none"> <li>1x CFM IGN Interface for optional CFM-IGN Module Expansion</li> </ul>                                                                                                                                                                                                                    |
| <b>Other Function</b>                                                                       |                                                                                                                                                                                                                                                                                                                                 |
| External FAN Connector                                                                      | <ul style="list-style-type: none"> <li>1x External FAN Connector, 4-pin Terminal Block (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>                                                                                                                                                                                                                        |
| Antenna Hole                                                                                | <ul style="list-style-type: none"> <li>5x Antenna Holes</li> </ul>                                                                                                                                                                                                                                                              |

| Power                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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: 204.46W</li> <li>65W CPU: 307.92W</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: 4.362 A@24V</li> <li>65W CPU: 4.516 A@24V</li> </ul>                                                                                                                                                                                                                                                                                                                                                   |
| Physical                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Dimension ( W x D x H )        | <ul style="list-style-type: none"> <li>224.1 x 162 x 62 mm</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                  |
| Weight Information             | <ul style="list-style-type: none"> <li>2.52 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 / VESA Mount</li> </ul>                                                                                                                                                                                                                                                                                                                                                                         |
| Physical Design                | <ul style="list-style-type: none"> <li>Fanless Design</li> <li>Cableless Design</li> <li>Jumper-less Design</li> <li>Unibody Design</li> </ul>                                                                                                                                                                                                                                                                                                         |
| Reliability & Protection       |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 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>413,236 Hours</li> <li>- Database: Telcordia SR-332 Issue3, Method 1, Case 3</li> </ul>                                                                                                                                                                                                                                                                                                                         |
| Operating System               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Windows                        | <ul style="list-style-type: none"> <li>Windows®11, Windows®10</li> </ul>                                                                                                                                                                                                                                                                                                                                                                               |
| Linux                          | <ul style="list-style-type: none"> <li>Ubuntu Desktop 22.04 LTS</li> </ul>                                                                                                                                                                                                                                                                                                                                                                             |
| Environment                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Operating Temperature          | <ul style="list-style-type: none"> <li>35W TDP Processor: -40°C to 70°C</li> <li>45W TDP Processor: -40°C to 60°C (With External Fan Kit)</li> <li>65W TDP Processor: -40°C to 55°C (With External Fan Kit)</li> <li>* PassMark BurnInTest: 100% CPU, 2D/3D Graphics (without thermal throttling)</li> <li>* With 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</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                        |
| Relative Humidity              | <ul style="list-style-type: none"> <li>95% RH @ 70°C (Non-condensing)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                       |
| Shock                          | <ul style="list-style-type: none"> <li>MIL-STD-810H</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                         |
| Vibration                      | <ul style="list-style-type: none"> <li>MIL-STD-810H</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                         |

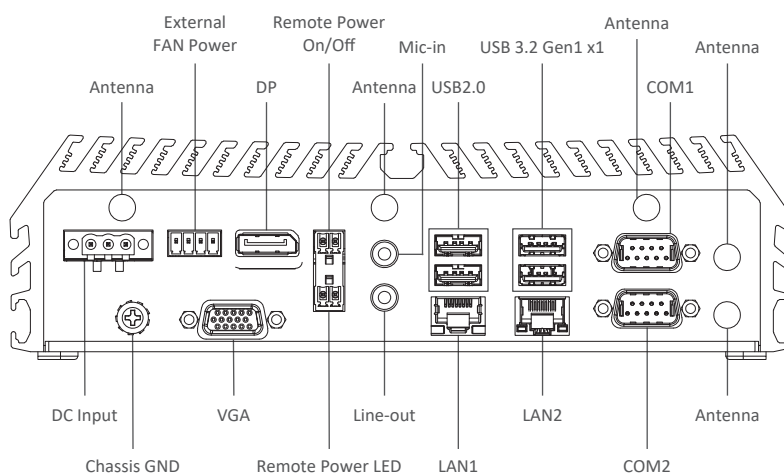
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMC    | <ul style="list-style-type: none"> <li>• CE, UKCA, FCC, ICES-003 Class A</li> <li>• EN IEC 61000-6-4 / EN IEC 61000-6-2 (24VDC Input Only)</li> <li>• EN 50155 (EN 50121-3-2 Only)</li> <li>• E-mark</li> </ul>                                                                                                                                                                                                                                                                                                                                       |
| EMI    | <ul style="list-style-type: none"> <li>• CISPR 32 Conducted &amp; Radiated: Class A</li> <li>• EN/BS EN 50121-3-2 Conducted &amp; Radiated: Class A</li> <li>• EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A</li> <li>• EN/BS EN 61000-3-3 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: 6 kV; Air: 8 kV</li> <li>• EN/IEC 61000-4-3 RS: 80 MHz to 1000 MHz: 20 V/m</li> <li>• EN/IEC 61000-4-4 EFT: AC Power: 2 kV; DC Power: 2 kV; Signal: 2 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 (**Compliant with the standard when utilizing shielded cable.)</li> <li>• EN/IEC 61000-4-8 PFMF: 50 Hz, 30A</li> <li>• EN/IEC 61000-4-11 Voltage Dips &amp; Voltage Interruptions: 1 cycles at 60 Hz</li> </ul> |
| Safety | <ul style="list-style-type: none"> <li>• UL, cUL, CB, IEC, EN 62368-1</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## External Layout

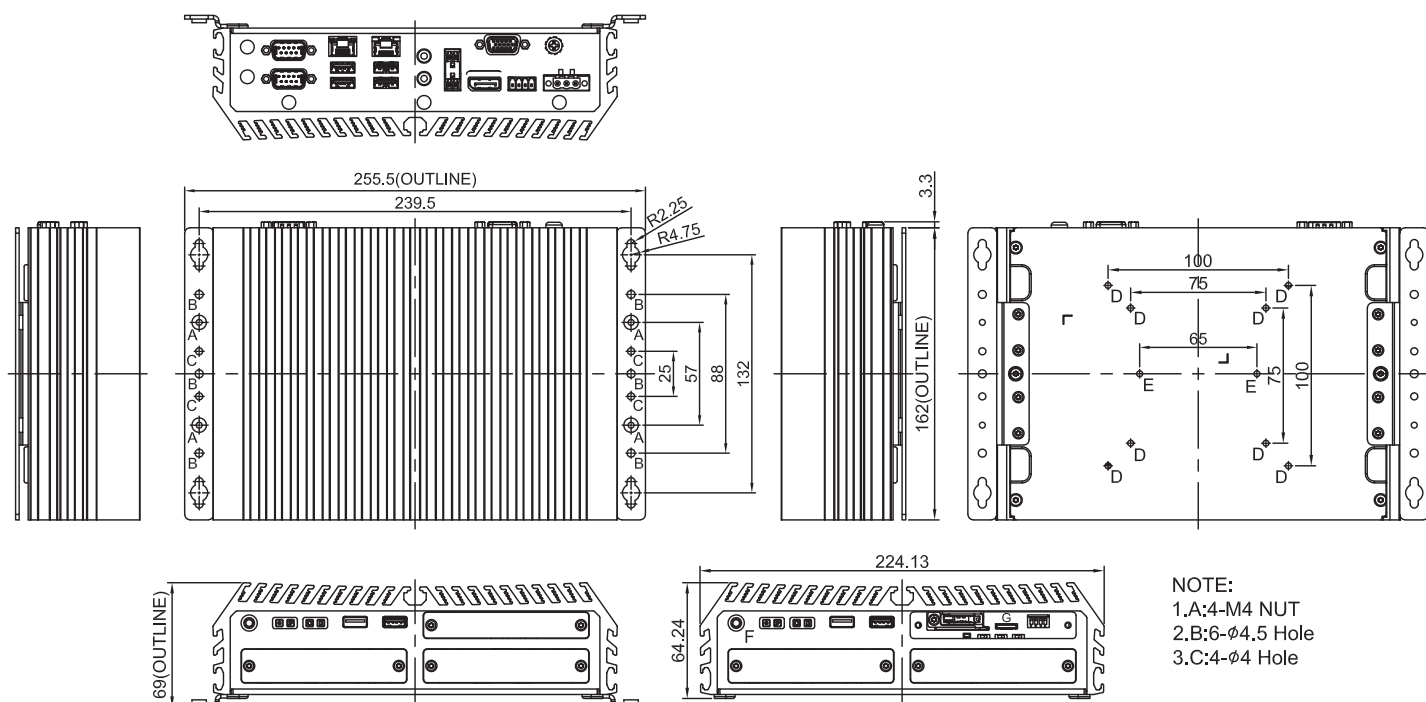
Front



Rear



## Dimensions



Unit: mm

## Ordering Information

### Available Models

| Model No.   | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| DV-1100-R10 | 14/13/12th Gen. Intel® Core™ Series High Performance and Basic Function Rugged Embedded Computer |

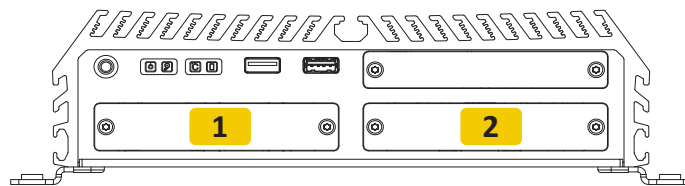
### Package Checklist

|                                             |                                                       |
|---------------------------------------------|-------------------------------------------------------|
| • DV-1100 Embedded Computer x1              | • Wall Mounting Kit x1                                |
| • CPU Installation Kit x1                   | • Power Terminal Block Connector x 1                  |
| • External Fan Terminal Block Connector x 1 | • Remote Function Terminal Block Connector x 2        |
| • Screw Pack x 1                            | • M.2 Key B Type 3052 to Type 3042 Adapter Bracket x1 |

### Optional Modules and Accessories

| Model No.       | Description                                                                                                |
|-----------------|------------------------------------------------------------------------------------------------------------|
| CMI-DP01-R10    | CMI Module with 1x DisplayPort                                                                             |
| CMI-HD03-R10    | CMI Module with 1x HDMI Port                                                                               |
| CMI-COM06-R10   | CMI Module with 2x RS232/422/485 Ports (Support 5V/12V)                                                    |
| CMI-DIO06-R10   | CMI Module with 16DIO (8in 8out)                                                                           |
| CFM-IGN04-R10   | CFM Module with Power Ignition Sensing Function, 12V/24V Selectable                                        |
| UB1603-R10      | Universal Bracket with 2x DB9 Cutout                                                                       |
| UB1606-R10      | Universal Bracket with DP Cutout                                                                           |
| UB1608-R10      | Universal Bracket with HDMI Cutout                                                                         |
| UB1611-R10      | Universal Bracket with 2x RJ45 Cutout                                                                      |
| UB1618-R20      | Universal Bracket with DIO Cutout                                                                          |
| UB1633-R10      | Universal Bracket with 2x USB Type C Cutout for MEC-USB (M.2 interface) Expansion                          |
| UB1634-R10      | Universal Bracket with 2x USB Type A Cutout for MEC-USB (M.2 interface) Expansion                          |
| DINRAIL-R10     | Diamond series DIN-RAIL Mount Kit                                                                          |
| FAN-EX104       | External Fan with 4pin Terminal Block Plug and Mounting Bracket, Support Smart Fan                         |
| GST220A24-CIN   | Adapter AC/DC 24V 9.2A 220W with 3pin Terminal Block Plug and Tubes, Level VI                              |
| GST360A24-CIN   | Adapter AC/DC 24V 15A 360W with 3pin Terminal Block Plug and TUBES, Level VI                               |
| RSD-200D-24     | Railway Single Output DC-DC Converter 200W / DC 24V                                                        |
| MEC-LAN-2002i   | M.2 2242/2260/2280 (B+M key) 2-port 10/100/1000 isolated Ethernet board, 2x RJ45 Connector                 |
| MEC-CAN-2812i   | M.2 2242/2260/2280 (B+M key) dual isolated CAN bus 2.0B board, 2x DB9 Connector                            |
| MEC-CAN-2814i   | M.2 2242/2260/2280 (B+M key) quad isolated CAN bus 2.0B board, 4x DB9 Connector                            |
| MEC-COM-2032i   | M.2 2242/2260/2280 (B+M key) 2-port RS-232/422/485 isolated serial board, 2x DB9 Connector                 |
| MEC-USB-2002C   | M.2 2242/2260/2280 (B+M key) 2-port USB 3.2 board(0°C~+70°C), 2x USB Type C Connector, Cervoz              |
| MEC-USB-2002-SP | M.2 2242/2260/2280 2 port USB 3.2 board(-0°C~+70°C), w/ IDE 20P 90° Cable, 2x USB Type A Connector, Cervoz |

## Optional Module Configuration



| Model No.                                                                                                                                                                                              | Description                                                                                                                                | 1 | 2 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---|---|
| <b>CMI-DP01/UB1606</b><br>                                                                                            | CMI Module with 1x DisplayPort / 1x Universal Bracket with DP Cutout for DV Series                                                         | - | V |
| <b>CMI-HD03/UB1608</b><br>                                                                                            | CMI Module with 1x HDMI / 1x Universal Bracket with HDMI Cutout for DV Series                                                              | - | V |
| <b>CMI-COM06/UB1603</b><br>                                                                                           | CMI Module with 2x RS232/422/485 Ports (Support 5V/12V) / 1x Universal Bracket with 2x DB9 Cutout for DV Series                            | V | V |
| <b>CMI-DIO06/UB1618</b><br>                                                                                          | CMI Module with 16DIO (8in 8out) / 1x Universal Bracket with DIO Cutout for DV Series                                                      | V | V |
| <b>MEC-LAN-2002i/UB1611</b><br>                                                                                     | M.2 Module with 2x 10/100/1000 isolated Ethernet board and 2x RJ45 Connector / 1x Universal Bracket with 2x RJ45 Cutout for DV Series      | V | V |
| <b>MEC-CAN-2812i/UB1603</b><br>                                                                                     | M.2 Module with 2x isolated CAN bus 2.0B board and 2x DB9 Connector/ 1x Universal Bracket with 2x DB9 Cutout for DV Series                 | V | V |
| <b>MEC-CAN-2814i/UB1603</b><br>  | M.2 Module with 4x isolated CAN bus 2.0B board and 4x DB9 Connector / 2x Universal Bracket with 2x DB9 Cutout for DV Series                | V |   |
| <b>MEC-COM-2032i/UB1603</b><br>                                                                                     | M.2 Module with 2x RS-232/422/485 Ports isolated serial board and 2x DB9 Connector / 1x Universal Bracket with 2x DB9 Cutout for DV Series | V | V |
| <b>MEC-USB-2002C/UB1633-R10</b><br>                                                                                 | M.2 Module with 2x USB 3.2 Type C Port / Universal Bracket with 2x USB Type C Cutout for MEC-USB (M.2 interface) Expansion                 | V | - |
| <b>MEC-USB-2002-SP/UB1634-R10</b><br>                                                                               | M.2 Module with 2x USB 3.2 Type A Port / Universal Bracket with 2x USB Type A Cutout for MEC-USB (M.2 interface) Expansion                 | V | - |

V : Compatible