



## **DV-1100 – Rugged High Performance Embedded Computer with Intel® 13th/12th Generation Processor Support**

The DV-1100 is a high-performance, rugged, embedded edge computer with support for Intel® 13th/12th Generation processors. It is compact allowing for deployment where space is at a premium and it's power makes it ideal for smart manufacturing, machine vision, railway computing, and space-constrained applications where stability and reliability are paramount. The DV-1100 is also expandable with CMI modules allowing for customized functionality making it an excellent industrial solution.

### **SPECIFICATIONS**

<b>CPU</b>	Intel® 12th and 13th Generation processors up to 65W TDP
<b>CPU Socket</b>	LGA1700
<b>Memory Type</b>	262-pin DDR5 4800MHz SO-DIMM
<b>Memory Slots</b>	1
<b>Maximum Memory Supported</b>	32GB
<b>Chipset</b>	Intel® H610E
<b>Integrated Graphics</b>	Integrated Intel® UHD Graphics 770: Core™ i9/i7/i5 ; Integrated Intel® UHD Graphics 730: Core™ i3 ; Integrated Intel® UHD Graphics 710: Pentium®/ Celeron®
<b>Watchdog Timer</b>	Software Programmable Supports 256 Levels System Reset
<b>Video</b>	1 x DisplayPort (3840 x 2160 @60Hz), 1 x VGA (1920 x 1200 @60Hz), 1 x CMI Interface for Optional CMI-DP/CMI-HDMI Module Expansion
<b>LAN Ports</b>	1 x Intel® I225 2.5GbE, 1 x Intel® I219 GbE
<b>Serial ATA (SATA)</b>	1 x 2.5" SATA III SSD / HDD
<b>M.2 Expansion Interface</b>	1 x M.2 M-Key 2280 PCIe Gen 4x4, 1 x M.2 B-Key 3042/3052 PCIe Gen 3x2, 1 x M.2 B-Key 2242 PCIe Gen 3x2, 1 x M.2 E-Key 2230 PCIe Gen 3x2

<b>Extended Interface</b>	1 x Front Accessible Dual Nano SIM, 1 x CMI Interface for optional CMI-Display Module Expansion, 2 x CMI Interface for optional CMI-COM/DIO Module Expansion
<b>COM</b>	2 x RS-232/422/485 with Auto Flow Control (Supports 5V/12V) DB9
<b>USB</b>	1 x 10Gbps USB3.2 Gen 2×1 Type A, 2 x 5Gbps USB3.2 Gen 1×1 Type A, 3 x 480Mbps USB2.0 Type A
<b>Rear I/O</b>	2 x USB 2.0, 2 x USB 3.2 Gen 1×1, 1 x DP, 1 x VGA, 2 x LAN, 2 x COM, 1 x Mic-In, 1 x Line-Out, 1 x DC-Input 3-pin, 1 x Remote Power Switch 2-pin, 1 x Remote Power LED 2-pin, 1 x External Fan 4-pin
<b>Front I/O</b>	1 x USB 2.0, 1 x USB 3.2 Gen 2×1, 2 x SIM
<b>Audio</b>	Realtek ALC888 HD Audio
<b>Power Input</b>	9 – 48VDC, 3-pin Terminal Block
<b>Remote Power On/Off</b>	1 x Remote Power On/Off, 2-pin Terminal Block
<b>Power Consumption</b>	35W CPU: 204.46W, 65W CPU: 307.92W
<b>Inrush Current (Peak)</b>	35W CPU: 4.362 A@24V, 65W CPU: 4.516 A@24V
<b>Dimensions</b>	224.1 x 162 x 62 mm
<b>Weight</b>	2.52 KG
<b>Mechanical Construction</b>	Extruded Aluminum with Heavy Duty Metal
<b>Mounting</b>	Wall / DIN-RAIL / VESA Mount
<b>Operating Temperature</b>	35W TDP Processor: -40°C to 70°C, 65W TDP Processor: -40°C to 55°C (With External Fan Kit)
<b>Storage Temperature</b>	-40 ~ 70°C (-40 ~ 158°F)
<b>Relative Humidity</b>	95% @ 70°C, non-condensing
<b>Shock</b>	MIL-STD-810H
<b>Vibration</b>	MIL-STD-810H
<b>OS Software Supported</b>	Windows 11, Windows 10, Ubuntu 22.04

## Global P/N / SKU

1708608

## Certifications

• CE, UKCA, FCC, ICES-003 Class A • EN IEC 61000-6-4 / EN IEC 61000-6-2 (24VDC Input Only) • EN 50155 (EN 50121-3-2 Only) • E-mark • CISPR 32 Conducted & Radiated: Class A • EN/BS EN 50121-3-2 Conducted & Radiated: Class A • EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A • EN/BS EN 61000-3-3 Voltage fluctuations & flicker • FCC 47 CFR Part 15B, ICES-003 Conducted & Radiated: Class A • EN/IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV • EN/IEC 61000-4-3 RS: 80 MHz to 1000 MHz: 20 V/m • EN/IEC 61000-4-4 EFT: AC Power: 2 kV; DC Power: 2 kV; Signal: 2 kV • EN/IEC 61000-4-5 Surges: AC Power: 2 kV; Signal: 1 kV • EN/IEC 61000-4-6 CS: 10V (\*\*Compliant with the standard when utilizing shielded cable.) • EN/IEC 61000-4-8 PFMF: 50 Hz, 30A • EN/IEC 61000-4-11 Voltage Dips & Voltage Interruptions: 1 cycles at 60 Hz; UL, cUL, CB, IEC, EN 62368-1

## Ordering Options

DV-1100-R10 (SKU# 1708608): 13th/12th Gen High Performance Rugged Expandable Embedded System Package Checklist: 1 x Wall Mounting Kit 1 x CPU Installation Kit 1 x Power Terminal Block Connector 1 x External Fan Terminal Block Connector 2 x Remote Function Terminal Block Connector 1 x Screw Pack 1 x M.2 Key B Type 3052 to Type 3042 Adapter Bracket [CMI Module List \(https://globalamericaninc.com/wp-content/uploads/2024/12/CMI-Module-List.pdf\)](https://globalamericaninc.com/wp-content/uploads/2024/12/CMI-Module-List.pdf)