



DV-1100 – 14th/13th Generation Intel® Core™ Series High Performance and Cost Effective Rugged Embedded Computer

The DV-1100 is a compact, high-performance, embedded edge computer that supports BTL-S/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.

SPECIFICATIONS

CPU	Bartlett Lake-S Core Series Processors
Chipset	Intel® H610E
Memory Type	DDR5 SO-DIMM sockets, support Un-buffered and non-ECC Type memory
Memory Slots	1
Maximum Memory Supported	48GB
Integrated Graphics	Integrated Intel® UHD Graphics 770: Core™ i9/i7/i5; Integrated Intel® UHD Graphics 730: Core™ i3; Integrated Intel® UHD Graphics 710: Pentium®/Celeron®
Watchdog Timer	Software Programmable Supports 256 Levels System Reset
External Fan Connector	1x External FAN Connector, 4-pin Terminal Block (Support Smart Fan by BIOS)
Video	1x VGA, 1xDP
LAN Ports	1x 2.5GbE Intel i226 LAN; 1x GbE Intel i219 LAN
Serial ATA (SATA)	1x 2.5" SATA 3.0 Bay
Serial (COM) Port	2x RS-232/422/485 with Auto Flow Control (Supports 5V/12V), DB9
Audio	Realtek ALC888 HD Audio

M.2 Interface	1x M.2 Key B Type 3042/3052 Socket (PCIe Gen 3×2 / USB3.2 Gen2 x1 / SATA), Support 5G/GNSS/Storage/Add-on Card Expansion; 1x M.2 Key B Type 3042 (PCIe Gen 3×2 / USB2.0), Support Storage/Add-on Card Expansion; 1x M.2 Key E Type 2230 Socket (PCIe Gen 3×2 / USB2.0), Support Storage/Wireless/Bluetooth/Intel CNVi Module Expansion; 1x M.2 Key M Type 2280 Socket (PCIe Gen 4×4 / SATA), Support Storage/Add-on Card Expansion
SIM	1x Front Accessible Dual Nano SIM Socket
CMI (See Ordering Options)	1x CMI Interface for optional CMI-Display Module Expansion; 2x CMI Interface for optional CMI-COM/DIO Module Expansion
CFM (See Ordering Options)	1x CFM IGN Interface for optional CFM-IGN Module Expansion
Power Requirement	9 ~ 48V DC Input 3-Pin Terminal Block
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
Remote Power	1x Remote Power On/Off, 2-pin Terminal Block; 1 x Remote Power LED, 2-pin Terminal Block
Dimensions	224.1 x 162 x 62 mm
Mechanical Construction	Extruded Aluminum with Heavy Duty Metal
Physical Design	Fanless, Cableless, Jumper-Less, Unibody Design
MTBF	413,236 Hours
Operating Temperature	35W TDP Processor: -40°C to 70°C; 45W TDP Processor: -40°C to 60°C (With External Fan Kit); 65W TDP Processor: -40°C to 55°C (With External Fan Kit)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Relative Humidity	95%@60°C (non-Condensing)
Shock	MIL-STD-810H
Vibration	MIL-STD-810H
EMC	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
EMI	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 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: 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; Signal: 2 kV; EN/IEC 61000-4-5 Surges: AC Power: 2 kV; EN/IEC 61000-4-6 CS: 10V; EN/IEC 61000-4-8 PFMF: 50 Hz, 1A/m; EN/IEC 61000-4-11 Voltage Dips & Voltage Interruptions: 0.5 cycles at 50 Hz

Safety

UL, cUL, CB, IEC, EN 62368-1

Operating System Support

Windows 11; Ubuntu Desktop 24.04 LTS Linux

Global P/N / SKU

1708645

Ordering Options

DV-1100 (SKU# 1708645): BTL-S/14/13/12th Gen. Intel® Core™ Series High Performance and Basic Function Rugged Embedded Computer Package Includes: Wall Mounting Kit, Power Terminal Block Connector, External Fan Terminal Block Connector, CPU Installation Kit, Screw Pack, Remote Function Terminal Block Connector, M.2 Key B Type 3052 to 3042 Adapter Bracket [CMI and CFM Module List \(https://globalamericaninc.com/wp-content/uploads/2026/08/CMI-and-CFM-List.pdf\)](https://globalamericaninc.com/wp-content/uploads/2026/08/CMI-and-CFM-List.pdf)

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