



DX-1300 – Intel® Arrow Lake-S Core™ Ultra 200S Series Processors, High Performance and Compact Rugged Embedded Computer

The DX-1300 is a compact industrial computer engineered for high-performance edge computing. Powered by an Intel Arrow Lake-S Core™ Ultra 200S series processor, it supports demanding edge applications, including advanced image processing, AI inference, and data integration across multiple tasks. The DX-1300 series packs exceptional computing performance and a rich feature set into a compact chassis while maintaining industrial-grade ruggedness. It is particularly well-suited for high-performance applications with limited installation space and has earned high acclaim in the manufacturing, in-vehicle, and railway markets. This compact chassis measures only 242 x 173 x 75mm and has a footprint comparable to an 11-inch iPad. This enables flexible deployment in space-constrained environments such as control cabinets, equipment interiors, or in-vehicle systems.

SPECIFICATIONS

CPU	Arrow Lake-S Ultra 200S Series CPUs
Chipset	Intel® W880
Memory Type	DDR5 SODIMM/CSODIMM, unbuffered and ECC supported
Memory Slots	2
Maximum Memory Supported	Ultra 9/7 supports up to 6400MHz, 96GB; Ultra 5 supports up to 5600MHz, 96GB
Integrated Graphics	Integrated Intel Xe LPG Graphics
Watchdog Timer	Software Programmable Supports 256 Levels System Reset
TPM	Supports Discrete TPM2.0 (with Optional CFM Module)
Instant Reboot	Supports 0.2sec Instant Reboot Technology
External Fan Connector	1x External FAN Connector, 4-pin Terminal Block (Support Smart Fan by BIOS)
Video	1x VGA, 1 x DP 4K, 1x HDMI 4K

LAN Ports	2 x 2.5GbE, Intel i226 Chipset LAN
Serial ATA (SATA)	2x 2.5" Front Accessible SATA 3.0 Bays
Serial (COM) Port	4x RS-232,422,485 with Auto Flow Control (Supports 5V/12V), DB9
Audio	Realtek ALC888 HD Audio
RAID	Supports RAID 0/1/5/10
M.2 Interface	1x M.2 Key B Type 3042/3052 Socket (PCIe Gen 3×2 / USB3.2 Gen1x1 / SATA), Supports 5G / GNSS / Storage / Add-on Card Expansion; 1x M.2 Key B Type 2242 Socket (PCIe Gen 4×2 / USB2.0 / SATA), Supports Storage / Add-on Card Expansion; 1x M.2 Key E Type 2230 Socket (PCIe Gen 3×2 /USB 2.0), Supports Bluetooth/Wireless/Storage/Intel CNVi Module Expansion
SIM	1x SIM Socket
CMI (See Ordering Options)	2x High Speed CMI Interface for optional CMI Module Expansion; 1x Low Speed CMI Interface for optional CMI Module Expansion
CFM (See Ordering Options)	1x CFM IGN Interface for optional CFM-IGN Module Expansion; 1x CFM-TPM Interface for optional CFM-TPM 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	242.2 x 173 x 75mm
Mechanical Construction	Extruded Aluminum with Heavy Duty Metal
Physical Design	Fanless, Cableless, Jumper-Less, Unibody Design
MTBF	332,808 Hours
Operating Temperature	35W Processor: -40 ~ 70°C (-40 ~ 158°F), 65W Processor with External Fan Kit: -40 ~ 50°C (-40 ~ 122°F)
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
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 EN 61000-3-3 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
Railway	EMC: EN 50155: 2021 Clause 4.4.6, 13.4.9; EN 50121-1 : 2017; EN 50121-3-2: 2016 + A1: 2019
Safety	UL, cUL, CB, IEC, EN 62368-1
Fire Protection	EN 45545-2
Operating System Support	Windows 11; Ubuntu Linux 24.04
Global P/N / SKU	1708644

Ordering Options

DX-1300 (SKU# 1708644): Intel® Arrow Lake-S Core™ Ultra 200S Series Processors, High Performance and Compact Rugged Embedded Computer Package Includes: Wall Mounting Kit, Power Terminal Block Connector, Fan Terminal Block Connector, Heatsink Pack, Screw Pack, Remote Function On/Off 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)

Some of our successful brand partners

