

Blue Line Defense AI EDGE GPU Computer DPC-2100



Model 1



Model 1

Highlights

Blue Line Defense AI EDGE GPU Computer DPC-2100 is a robust AI Inference server-class platform engineered to withstand challenging environments. This ruggedized solution is equipped with an Intel Xeon Processor, offering up to 20 Cores, and is enhanced with NVIDIA technology.

With its high-bandwidth networks and cutting-edge features, the DPC-2100 delivers exceptional performance for data-intensive industries like medical, defense, and transportation. Its Ethernet connectivity and secure smart network interface card (SmartNIC) bolster performance, security, virtualization, SDN/NFV, big data, and machine learning capabilities for data center applications.

Reduce cost and time spending with our global partner model based on your specific requirements. Let Blue Line take responsibility for delivery on time. Blue Line's ultimate goal is to help our customers get peace of mind by handling all relevant details such as securing the right configuration, software setup, mounting, packaging, labeling etc. Ask for references from your industry.



Model 1



Model 2

- Military AI Edge GPU Computer
- IP65 certified
- MIL-STD-461/810G certified
- Ultra high performance Intel Xeon Ice Lake-D
- NVIDIA MXM-GPU Quadro RTX4500 5888 CUDA
- 2 x 25GbE SFP28 and 2 x 10GbE
- Up to 512GB LRDIMM and 2 x NVMe PCIe generation 4.0 U.2
- Dual removable anti-drop SSD w/hardware secure erase (AES) by option
- Wide temp -20 to 60°C
- Build-to-order configured to your requirements



BLUE LINE
IT for Demanding Environments

- has more than 30 years experience
- delivers reliable IT solutions for demanding environments
- builds compact and high performance solutions
- focuses on long duration, 24/7-operation, and ruggedness
- is ISO 9001:2015-certified
- is known for providing the best assistance and services in all phases.

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Specifications

Model Type

Rugged AI box PC

Form Factor

Compact

Construction

Aluminium

Cooling

IP65 sealed with external smart fan

Environment

Operating temperature	-20°C to +60°C
Storage temperature	-40°C to +85°C
Humidity	5% to 95%, non-condensing



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DPC-2100

MIL-STD-810	Method 500.5, procedures I and II (altitude, operation): 12,192 M, (40,000 ft) for the initial cabin altitude (18.8 Kpa or 2.73 Psia) Method 500.5, procedures III and IV (Altitude, non-operation): 15,240, (50,000 ft) for the initial cabin altitude (14.9 Kpa or 2.16 Psia) Method 501.5, procedure I (storage / high temperature) Method 501.5, procedure II (operation / high temperature) Method 502.5, procedure I (storage / low temperature) Method 502.5, procedure II (operation/ low temperature) Method 503.5, procedure I (temperature shock) Method 507.5, procedure II (temperature & humidity) Method 509.7 salt spray (50±5)g/L Method 514.6, vibration category 24 / non-operating (category 20 & 4, vibration) Method 514.6, vibration category 20 / operating (category 20 & 24, vibration) Method 516.6, shock-procedure V non-operating (mechanical shock) Method 516.6, shock-procedure I operating (mechanical shock)
MIL-STD-461	CE102 basic curve, 10 kHz to 30 MHz RE102-4, (1.5 MHz) -30 MHz to 5 GHz RS103, 200 MHz to 3.2 GHz, 50 V/m equal for all frequencies EN 61000-4-2: Air discharge: 8 kV, contact discharge: 6kV EN 61000-4-3: 10 V/m, EN 61000-4-4: Signal and DC-Net: 1 kV EN 61000-4-5: Leads vs. ground potential 1kV, signal und DC-Net: 0.5 kV
MIL-STD-1275	Steady state - 20V to 33V, Surge low - 18V/500ms, Surge high - 100V/500ms Emitted spikes Injected voltage surges Emitted voltage surges Voltage ripple (2V) Voltage spikes Starting operation Reverse polarity

Certification

CE and FCC
MIL-STD-810G thermal, shock, vibration, humidity
MIL-461 EMC/EMI
MIL-STD-1275

Processor

CPU model 1, 2 & 3	Intel Xeon D-2733NT, 8C/16T, 2.1GHz, max turbo up to 3.2GHz, 80W TDP
Option for	Intel Xeon D-2775TE, 16C/32T, 2.0GHz, max turbo up to 3.1GHz, 100W TDP
Option for	Intel Xeon D-2796NT, 20C/40T, 2.0GHz, max turbo up to 3.1GHz, 120W TDP
GPU model 1 & 2	1 x Nvidia RTX A4500 16GB DDR6 MXM PCIe x16 generation 4.0, 125W TDP Total: 5888 CUDA cores, 184 Tensor cores and 80 RT cores
GPU model 3	2 x Nvidia RTX A4500 16GB DDR6 MXM PCIe x16 generation 4.0, 125W TDP Total: 11.776 CUDA cores, 368 Tensor cores and 160 RT cores

Chipset

SoC

RAM

4 x DDR4 sockets, supports 2933 MHz SDRAM up to 256GB RDIMM / 512GB LRDIMM

Storage

2 x 2TB 2.5" swappable SATA drive with AES function

Input / Output



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DPC-2100

Model 1

- X1 1x CAN BUS TVS07RF-9-98S connector
- X2 1x 10GbE(SFP+) LCFTV70NN connector
- X3 1x 10GbE TVSS07RF-11-35SA connector (Intel X550-AT2)
- X4 1x DC-IN TV07RW-13-4P connector
- X5 4x RS232/422/485 24FD35SN connector
- X6 1x GbE TVS07RF-11-35S-LC connector (Intel i350-AM4)
- X7 1x GbE TVS07RF-11-35S-LC connector (Intel i350-AM4)
- X8 1x USB3.0 USB3FTV7AZNF312 connector
- X9 1x VGA D-sub 15 connector with waterproof cap

Model 2

- X1 DC In connector
- X2 1 x USB3.0 Amphenol USB3FTV7AZNF312 connector
- X3 1 x 1GBase-T TV07RW-13-98S connector (Intel i350-AM4)
- X4 1 x 1GBase-T TV07RW-13-98S connector (Intel i350-AM4)
- X5 1 x 10GBase-T M20 RJ45 CAT6A connector (Intel X550-AT2)
- X6 1 x 10GBase-T M20 RJ45 CAT6A connector (Intel X550-AT2)
- X7 1 x 100G fiber ethernet Amphenol FSI MPOFTV70ZNN (Nvidia ConnectX-6)
- VGA D-sub 15 connector with waterproof cap

Model 3

- X0 1 x USB 3.0 Amphenol USB3FTV7AZNF 312 connector
- X1 2 x 10GbE in 1 x 22-pin Amphenol TV07RW-13-35S (Intel X550-AT2)
- X2 1 x 1GBase-T TV07RW-13-98S connector (Intel i350-AM4)
- X3 1 x 1GBase-T TV07RW-13-98S connector (Intel i350-AM4)
- X4 1 x 1GBase-T TV07RW-13-98S connector (Intel i350-AM4)
- X5 DC In connector
- X6 1 x 10GBase-T M20 RJ45 CAT6A connector
- X7 1 x 10GBase-T M20 RJ45 CAT6A connector
- X8 1 x 25G fiber ethernet Amphenol FSI MPOFTV70ZNN (Intel SoC)
- X9 1 x 25G fiber ethernet Amphenol FSI MPOFTV70ZNN (Intel SoC)
- VGA D-sub 15 connector with waterproof cap

Power Supply

+18V to 36V DC-in

Power Consumption

TBD

Dimension and Weight

Dimension W 405 x L 316 x H 195mm

Net weight 10kg

Gross weight TBD

Warranty and After Sales Support

Standard 1 year (option for 3 years)

Operating System

- Windows 10 / 11
- Windows 10 IoT Enterprise
- Linux

