Blue Line Defense AI EDGE GPU Computer DPC-2000

Blue Line A/S | Kappa 8 | 8382 Hinnerup, Denmark
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Highlights

The Defense AI EDGE GPU Computer DPC-2000 is designed to fit in harsh military environments.Its robust design and advanced functionality, including MIL-STD Amphenol type connectors and complete IP66 protection, empower the system to thrive in challenging conditions. With support for extended temperatures ranging from -40°C to 70°C and a MIL-STD-461 18V to 36V DC-input power supply, the DPC-2000 is fortified against voltage surges, ensuring the safeguarding of critical components and overall system reliability.

Reduce cost and time spending with our global partner model based on your specific requirements. Let Blue Line

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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.

• Military AI Edge GPU Computer

• IP66 certified

• MIL-STD-461G/810H certified

• 13th generation Intel Raptor Lake i7

• Supports Windows 10 / 11 / Linux

• Up to 64GB DDR5, non-ECC and ECC

• Supports NVIDIA RTX A2000 or A4500

• Wide temp -40°C to 60°C

• Build-to-order configured to your requirements

Specifications

Model Type

Rugged AI box PC

Form Factor

Compact

Construction

Aluminium

Cooling

Fanless
Option for IP67 smart fan kit

Environment

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Operating temperature	-40°C to +60°C
Storage temperature	-40°C to +85°C
Humidity	5% to 95%, non-condensing
Vibration	MIL-STD-810
Shock	MIL-STD-810

Certification

CE	
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

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	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 EN55022: Class A
MIL-STD-1275 (Options)	Steady state: 20V to 33V Surge low: 18V/500ms Surge high: 100V/500ms

Processor

Intel Raptor Lake 13th generation Core i7-13800HE, 45W, 14C/20T, 2.5/5.0 Ghz, 24MB cache, 45W TDP

Chipset

SoC

Integrated Intel Iris Xe Graphics

RAM

2 x 262-pin DDR5 SO-DIMM sockets, supports 4800 MHz SDRAM up to 64GB

Storage

On board 64GB NVMe SSD

1 x 2280 M key (SATA only)

1 x 2.5" internal SSD / HDD drive bays

Input / Output

X5 1 x DC-IN, with D38999 connector

X1 1 x COM (RS232) + 3 x COM(RS232 / 422 / 485) with D38999 connector

X2 2 x GbE + 2 x USB 2.0 with D38999 connector

X3 1 x DIDO 4in/4out + 1 x VGA with D38999 connector

X4 1 x USB3.0 with D38999 connector

1 x SSD / HDD LED indicator

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1 x IP65 power button, with LED indicator

Expansion

1 x Full-size mini PCIe with mSATA supported

1 x Full-size mini PCIe

1 x M.2 2280 M key (SATA only)

1 x MXM socket support: Nvidia Quadro RTX A2000 8G or RTX A4500 16GB GDDR6

Operating System

Windows 10 / 11

Windows 10 IoT Enterprise

Linux

Power Consumption

TBD

Dimension and Weight

Dimension	H 122 x W 250 x D 325mm
Dimension w/fan kit	TBD
Weight	10.5kg

Accessories Optional

4 x CH HD-SDI frame grabber

Dual 10GbE (Intel X710) ethernet ports

Conformal coating on electronics

MIL-STD-1275 - steady state: 20V to 33V - surge low: 18V/500ms - surge high: 100V/500ms

Warranty and After Sales Support

Standard 1 year (option for 3 years)

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