Blue Line IGPU-2000



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

Blue Line IGPU-2000, an advanced and rugged GPU solution designed specifically for AI and deep learning inference platforms in robotics and machine vision applications. This cutting-edge industrial computer offers high AI computing performance, making it ideal for edge AI applications. With the Blue Line IGPU-2000, you can significantly reduce costs and save time.

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

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handling all relevant details such as securing the right configuration, software setup, mounting, packaging, labeling etc. Ask for references from your industry.

• Fanless AI edge embedded box PC

• Up to 60W GPU MXM module expansion

• 12 / 13th generation Intel Core i3 / i5 / i7 / i9 CPU

• HDMI, DVI and 2x DP (support 4 independent displays)

• Configurable ignition power on/off delay control

• Wide range of I/O & Option for PoE

• Build-to-order configured to the requirements

Specifications

Model Type

AI Box-pc

Form Factor

Compact

Construction

Aluminium

Cooling

Fanless
Option external SMART fan kit

Environment

Operating Temperature	-20°C to +50°C ambient w/ air flow -20°C to +65°C w/ external SMART fan kit

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Humidity	10% to 95% @ 65°C non-condensing
Vibration Endurance	5 to 500Hz 3G rms X,Y, Z axis w/SSD, according to IEC 60068-2-64
Shock	50 Grms, half-sine 11m sec. duration w/ SSD according to IEC60068-2-27

Certification

CE, FCC Class A, E mark

Processor

Intel Core 13th generation i3 / i5 / i7 / i9 (up to 35W CPU)

Chipset

Intel R680E

RAM

2 x 262-pin DDR5 SO-DIMM sockets, supports 4800 MHz SDRAM up to 64GB (ECC/ Non-ECC)

Storage

1 x M.2 M key 2242/2280, supports PCIe x4 + SATA (support boot up function)

1 x M.2 B key 2242/2280, supports PCIe + USB + SATA

2 x 2.5” outside accessible drive bays

Input / Output

Front I/O:

1 x DVI-I female connector for digital/analog video output*

1 x HDMI 2.0b female connector*

1 x Mic-in/line-out

Rear I/O:

8 x USB 3.2/2.0 type A ports

1 x Intel WGI219LM GbE controller w/ iAMT 16.0 via RJ-45 Port

3 x Intel I226 2.5GbE controllers via RJ-45 Port

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2 x RS-232/422/485 configurable ports via DB-9 connectors (default RS232, switch via BIOS)

1 x DB15 connector for 8 x digital input (dry/wet contact) with 2KV isolation

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2 x DP 1.4a from MXM module or Intel graphics*

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1 x DB15 connectoror 8 x digital output with 2KV isolation

Power Input DC +9 to 36V input (w/ 4-pin DC input terminal block, (V+, V+, V-, V-)

Ignition switch 2-pin teminal block: IGN, GND

* Supports 4 independent displays

Expansion

1 x MXM3.1 type A/B GPU Slot (PCIe gen5 x 16), supports up to 60W MXM A2000

2 x mPCIe Slots interconnected with SIM card sockets for optional WiFi/BT/3G/LTE/ GPS (PCIe x 1 + USB2.0, full size)

1 x M.2 B key (2242/3052/2280) w/ (PCIe x 2 + USB3.0 + SATA) interconnected with SIM for 5G / LTE expansion or for storage (either one)

1 x M.2 E key (2230) with PCIe x 1 + USB2.0 + CNVi) for Wireless

Management Software

Watchdog Timer 1 to 255 levels reset

Time-Sensitive Networking (TSN)

Onboard TPM 2.0

Operating System

Windows 10 IoT Enterprice 64-bit

Linux Ubuntu 20.04 or later

Power Supply

+9 to 36V DC-in by 4-pin terminal block

Ignition switch 2-pin teminal block: IGN, GND

Power Consumption

Max. 180W

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Dimension and Weight

Dimensions	H 90 x W 285 x D 230mm H 110 x W 285 x D 230mm, w/ fan
Weight	5.83kg

Mounting

Wall mount

Accessories Optional

AC to DC 280W power adapter kit w/ 2-pin/3-pin/4-pin block
Wall mount kit
GPS modul + antenna kit
WIFI/BT modul + antenna kit
4G/LTE modul + antenna kit
External smart fan kit (80 x 80 x 15mm, 4-pin terminal block, mounting bracket, support smart fan function)
Dust cover kit for I/O port
Smart Keeper Professional for physical I/O port security

Warranty and After Sales Support

Standard 1 year (option for 3 years)

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