Blue Line IP66 Edge AI Computer



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

The Blue Line IP66 Edge AI Computer combines high-performance computing with a rugged design for demanding industrial and outdoor applications. Powered by Intel® Core™ Series 2 processors with optional GPU acceleration, it enables real-time AI processing close to where data is generated. The IP66-rated enclosure protects against dust and powerful water jets.

Powerful AI processing without cloud dependency

Process multiple camera streams and demanding AI workloads directly at the edge. With Intel® Core™ Series 2 processors and optional NVIDIA RTX™ or Intel® Arc™ graphics, the system enables real-time analysis and faster responses without relying on continuous cloud connectivity.

Reliable computing in exposed environments

Bring computing power closer to your operations, even where dust, water and vibration are everyday challenges. The IP66-rated enclosure and secure M12 connections help protect critical hardware, making the system suitable for industrial machinery, mobile equipment and outdoor installations.

Simplify integration and maintenance

Connect multiple cameras and industrial devices through dual 10GbE and four 2.5GbE ports, with optional PoE+ to reduce cabling. A front-access RTC battery and optional backup power further simplify maintenance and help manage unexpected power interruptions.

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- Edge AI computing for demanding industrial environments
- IP66 protection against dust and powerful water jets
- Intel® Core™ Series 2 processor platform
- Optional NVIDIA RTX™ or Intel® Arc™ GPU acceleration
- 2 x 10GbE + 4 x 2.5GbE networking with optional PoE+
- Rugged M12 connectors for secure connectivity
- Fanless design for reduced maintenance
- Wide 18 to 60V DC power input
- Build-to-order configured to your requirements

Specifications

Model Type

Edge AI Industrial Computer

Form Factor

Ultra Compact

Construction

Aluminium alloy chassis
IP66-rated enclosure

Cooling

Fanless passive cooling design

Environment

Ingress Protection	IP66

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Operating temperature	-40°C to +70°C with 0.6 m/s airflow* *Operating temperature varies by GPU configuration and installed accessories.
Storage temperature	-40°C to +70°C with 0.6 m/s airflow
Humidity	10% to 90% (non-condensing)
Vibration	IEC 60068-2-64, random, 2.5G @ 5 to 500Hz, 1hr/axis MIL-STD-810H, Method 514.8, Procedure I, Category 4
Shock	MIL-STD-810H, Method 516.8, Procedure I, 15G (11ms)

Certification / Compliance

CE / FCC Class A / UKCA / E-Mark	EN 50155	EN 45545-2 (R25)	EN 62638-1

Processor

Intel® Core™ Series 2 platform

CPU options: Core™ 9 273PTE / Core™ 7 251TE / Core™ 5 221TE

Chipset

Intel R680E

Intel UHD Graphics 700

Optional NVIDIA RTX™ Embedded or Intel® Arc™ GPU

TPM 2.0

Watchdog auto reset for unresponsive system (custom 1 to 255 sec/min settings in BIOS)

RAM

2 x DDR5-5600 SO-DIMM, up to 96GB

ECC support with ECC DRAM

Storage

1 x M.2 2280 Key M for NVMe/SATA SSD

2 x M.2 2280 Key M for NVMe SSD

2 x 2.5" SATA SSD

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Front I/O

2 x HDMI® 2.0b, up to 3840 x 2160 @ 60Hz
2 x 10GbE (Marvell AQC113) via M12 X-coded connectors
4 x 2.5GbE (Intel® I226IT) via M12 X-coded connectors*

*Optional PoE+ supports 25.5W per port, with a total power budget of 120W. ETH3 supports Intel® AMT.

2 x USB 3.2 Gen 2
2 x RS-232/422/485 via M12 A-coded connectors
8 x Digital Input (DC 5 to 60V)
8 x Digital Output (DC 5V/100mA) via M12 A-coded connector
1 x DC power input via M12 K-coded connector
Removable front RTC battery tray

Expansion

2 x M.2 3042/3052 Key B (WWAN) w/ dual SIM support

* Thermal solution is required for M.2 5G module.

1 x M.2 2230 Key E (WiFi / Bluetooth)
2 x Mini PCIe (full-size)

Operating System

Windows 11 IoT Enterprise LTSC
Ubuntu 26.04 LTS

Power Supply

DC 18 to 60V input (nominal DC 24V/48V)
M12 K-coded power connector
Ignition detection and smart power management
Power protection: OCP / OVP / surge protection / reverse polarity protection
Optional battery backup unit, up to 10 minutes*

*Backup time depends on system power consumption and battery charge.

Dimension and Weight

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L 290 x W 253.5 x H 101.5 mm

Net weight: 6 kg

Mounting

Wall Mount

Accessories Optional

DDR5-5600 SO-DIMM memory, 8GB to 48GB per module, ECC option

M.2 2280 NVMe SSD with thermal kit

M.2 2280 SATA SSD with thermal kit

2.5" SATA SSD

Wi-Fi / Bluetooth module

WWAN / 4G / 5G module

GNSS module

CAN Bus module

AC/DC power adapter, 100 to 240V input / 24V 280W output

Optional Discrete GPU:

NVIDIA RTX™ Embedded 5000 Ada Generation, GDDR6 16GB, 9728 CUDA / 304 Tensor cores (System operating temperature: 0°C to +60°C)

NVIDIA RTX™ Embedded 3500 Ada Generation, GDDR6 12GB, 5120 CUDA / 160 Tensor cores (System operating temperature: 0°C to +60°C)

NVIDIA RTX™ Embedded 2000 Ada Generation, GDDR6 8GB, 3072 CUDA / 96 Tensor cores (System operating temperature: 0°C to +70°C)

Intel® Arc™ A370E, GDDR6 4GB, 8 Xe-cores / 128 Execution Units (System operating temperature: 0°C to +70°C)

Warranty and After Sales Support

Standard 1 year (option for 3 years)

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