

Blue Line Edge AI Computer



BLUE LINE
IT for Demanding Environments

Blue Line A/S | Kappa 8 | 8382 Hinnerup, Denmark
T +45 8678 5000 | www.blue-line.com

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Highlights

Blue Line ABOX-5220 is a powerful and flexible Edge AI computer designed for real time data processing, video analytics and industrial automation directly at the source of data.

It enables organizations to run AI workloads at the edge, reducing latency, lowering network load and improving system reliability in demanding environments. With support for 14th generation Intel® Core™ processors and optional GPU acceleration, it delivers a scalable platform for both current and future AI applications.

- Edge AI computing without cloud dependency
- Optional NVIDIA RTX™ or Intel® Arc™ GPU acceleration
- Up to 8 x GbE + 2 x 2.5GbE networking + 8 x PoE for cameras
- 14th Gen Intel® Core™ platform
- Fanless rugged industrial design
- Flexible I/O for easy system integration
- Scalable architecture for future growth
- Build-to-order configured to your requirements

Specifications



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Model Type

Edge AI Industrial Computer

Form Factor

Ultra Compact

Construction

Aluminium chassis

Cooling

Fanless passive cooling design
Heat pipe and chassis conduction cooling

Environment

Operating temperature	-40°C to +70°C
Storage temperature	-40°C to +80°C
Humidity	10% to 90% (non-condensing)
Vibration	MIL-STD-810H compliant
Shock	MIL-STD-810H compliant

Certification

CE / FCC Class A / UKCA / E-Mark	EN 50155	EN 45545-2	IEC 62368-1
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Processor

Intel 14th Gen Core platform	CPU options: i9-14900T / i7-14700T / i5-14500T / i3-14100T
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Chipset

Intel R680E
TPM 2.0



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RAM

DDR5 SO-DIMM, up to 96GB
option for ECC

Storage

1 x M.2 2280 Key M
2 x 2.5" SATA
RAID 0 / 1 / 5

Front I/O

1 x power switch
1 x reset switch
1 x SIM slot
1 x SD card slot
1 x audio In/Out
2 x USB 2.0
1 x micro USB (OTG)
8 x PoE+ (30W per port / 120W total)

Rear I/O

2 x 2.5GbE LAN
1 x 10GbE LAN
8 x GbE LAN
1 x HDMI 2.0
2 x USB 3.2
4 x RS-232/422/485
1 x CAN bus (isolated)
8 x GPIO
5 x SMA antenna connectors
1 x Power input (3-pin terminal block)

Expansion

2 x M.2 Key B (WWAN)
1 x M.2 Key E (WiFi / Bluetooth)



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2 x Mini PCIe

Operating System

Windows 10 IoT
Windows 11 IoT
Ubuntu 22.04 LTS

Power Supply

9 to 60V DC input
Ignition support
Protection: OVP / OCP / reverse polarity

Dimension and Weight

H 94 x W 242 x D 177mm
5.7kg

Mounting

Wall Mount

Accessories Included

Power cable
RS485 cable
Alarm I/O cable
Mounting kit

Accessories Optional

AC/DC power adapter (24V, 218W)
4G / 5G module
WiFi / Bluetooth module
CAN module
GNSS module

Warranty and After Sales Support



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Standard 1 year (option for 3 years)



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