

# 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](http://www.blue-line.com)

# Blue Line Edge AI Computer



Model 1



Model 1



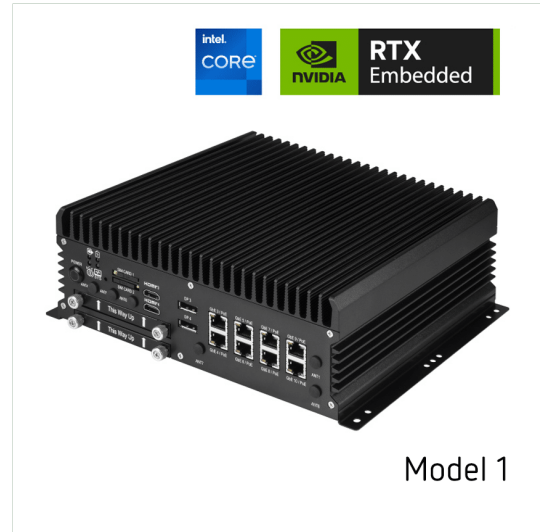
Model 1



Model 1



# Blue Line Edge AI Computer



## Highlights

Blue Line Edge AI computer is a powerful and flexible 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
- 2 x 2.5GbE networking + 8 x 1GbE with PoE+ option 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

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Edge AI Industrial Computer

## Form Factor

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Ultra Compact

## Construction

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Aluminium chassis

## Cooling

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Fanless passive cooling design  
Heat pipe and chassis conduction cooling

## Environment

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Ingress Protection	IP40
Operating temperature	-40°C to +70°C with 0.6 m/s airflow*
Storage temperature	-40°C to +80°C
Humidity	10% to 90% (non-condensing) IEC 60068-2-64, random, 2.5G (Z) 0.21G (Y) 0.76 (Z)@5 to 500Hz, 1hr/axis
Vibration	MIL-STD-810H, Method 514.8, Category 4 EN 61373:2010, Clause 8 MIL-STD-810H, Method 516.8, 20G (11ms)
Shock	EN 61373:2010, Clause 10

## Certification / Compliance

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

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Intel 14th Gen Core platform

CPU options: i9-14900T / i7-14700T / i5-14500T / i3-14100T

## Chipset

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Intel R680E

Intel UHD Graphics 770

Infineon TPM 2.0

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

## RAM

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2 x DDR5-5600 SO-DIMM, up to 96GB (ECC support with ECC DRAM)

## Storage

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

2 x M.2 2280 Key M for NVMe SSD

2 x Removable tray for 2.5" SATAIII SSD\*

\*RAID 0/1/5 support via Intel® VMD.

## Front I/O

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Power on/off button with LED Indicators

4 x LED Indicators

HDD/SSD

BBU

ACC

SYS

2 x mini SIM Card slot (Internal M.2 Modem required)

2 x DP++ up to 7680 x 4320 @ 60Hz\*

\*with optional discrete GPU SKU only

\*\* Only support one DP for NVIDIA RTX 2000 Ada GPU



# Blue Line Edge AI Computer

2 x HDMI 2.0b up to 3840 x 2160 @ 60Hz\*

\*with optional discrete GPU SKU only

8 x 1GbE (Intel I210) Option for PoE+\*

via RJ-45 Port Option for M12 X-code Port.

\* PoE supports 25.5W per port with total power budget: 120W

6 x Pre-cut holes for SMA antenna connectors

## Rear I/O

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1 x Line in / 1 x Line out / 1 x Mic in via jack

2 x 2.5GbE LAN (Intel i226) via RJ-45 Port

\* Port NB:1, 2.5G supports Intel® AMT & vPro

\*\* All Ethernet ports support PXE boot and Wake-on-LAN

2 x DP++ up to 7680 x 4320@60Hz via onboard Intel UHD Graphics 770

2 x HDMI 2.0b up to 3840 x 2160@60Hz via onboard Intel UHD Graphics 770

8 x USB 3.2 Gen 2 (10Gbps) Type A Port

4 x RS-232/422/485 COM Port\*

Optional: 1 x CAN bus (isolated) Via COM port NB. 4

8 x DI (DC 5-60V), 4 x DO (DC 5V/100mA) 2 x ADC (DC 0-60V) via DB15 Port

2 x Pre-cut holes for SMA antenna connectors

1 x Power input (5-pin terminal block)

1 x Ground screw (M5 Bolt)

## Expansion

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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

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# Blue Line Edge AI Computer

Windows 10 & 11 IoT Enterprise

Ubuntu 22.04 LTS

## Power Supply

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+9 to 60V DC input

\*Power input of DC 24V or above is required for system with discrete GPU and PoE

Ignition support

Power Protection: OVP / OCP / surge protection, reversed polarity protection

## Power Consumption

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Up to 250W with i9 and RTX 5000 Ada

## Dimension and Weight

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H 98 x W 250 x L 290mm (11.42 x 9.84 x 3.86 in.) with mounting brackets

Net weight 5.7kg barebone

Net weight 8.75kg

With

CPU/MEM/SSD/GPU  
and BBU

Gross weight TBD

## Mounting

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Wall Mount

## Accessories Included

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Mounting kit

## Accessories Optional

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AC/DC power adapter 100-240V/24V 280W bare wire + C14 Power core

4G / 5G module

WiFi / Bluetooth module

CAN module

GNSS module



# Blue Line Edge AI Computer

Internal battery kit, charging Temp. 0°C ~ 45°C, discharging Temp. -10°C to 60°C

NVIDIA RTX Embedded 5000 Ada Generation, GDDR6 16GB, 9728 CUDA / 304 Tensor (System Operating Temp. 0°C ~ 60°C)

NVIDIA RTX Embedded 3500 Ada Generation, GDDR6 12GB, 5120 CUDA / 160 Tensor (System Operating Temp. 0°C to 60°C)

Optional Discrete GPU:

NVIDIA RTX Embedded 2000 Ada Generation, GDDR6 8GB, 3072 CUDA / 96 Tensor (System Operating Temp. 0°C to 70°C)

Intel Arc A370E, GDDR6 4GB, 8 Xe-cores / 128 Execution Units (System Operating Temp. 0°C to 70°C)

## Warranty and After Sales Support

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Standard 1 year (option for 3 years)

