# Blue Line Edge AI Computer EAC-1000






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

# Blue Line Edge AI Computer EAC-1000



Model 1



Model 1



Model 1

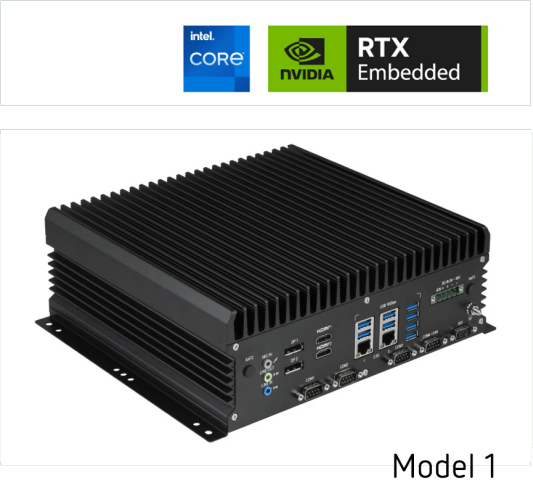


Model 1



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

# Blue Line Edge AI Computer EAC-1000







## Highlights

Blue Line Edge AI computer EAC-1000 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



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

# Blue Line Edge AI Computer EAC-1000

## 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

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

## Certification / Compliance

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



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

# Blue Line Edge AI Computer EAC-1000

## Processor

Intel 14th Gen Core platform

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

## Chipset

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

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 Removable tray for 2.5" SATAIII SSD*

*RAID 0/1/5 support via Intel® VMD.

## Front I/O

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

# Blue Line Edge AI Computer EAC-1000

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

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

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


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

# Blue Line Edge AI Computer EAC-1000

Windows 10 & 11 IoT Enterprice
Ubuntu 22.04 LTS

## Power Supply

+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

Up to 250W with i9 and RTX 5000 Ada

## Dimension and Weight

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

Wall Mount

## Accessories Included

Mounting kit

## Accessories Optional

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

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

Optional Discrete GPU:

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)

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)

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)



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