

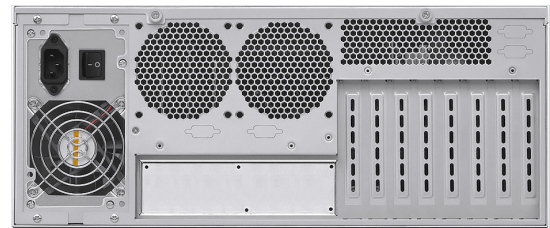
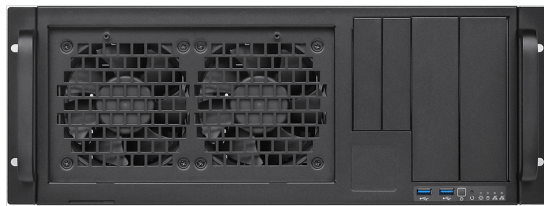
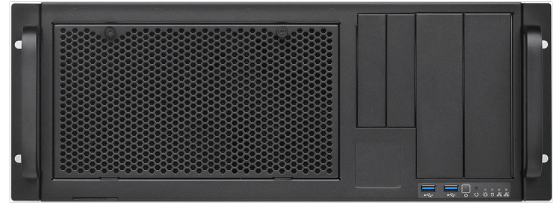
Blue Line Industrial Server-1000



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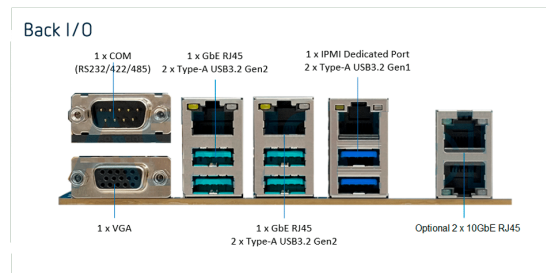
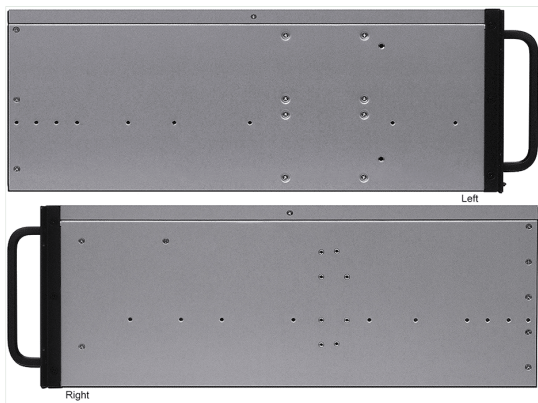
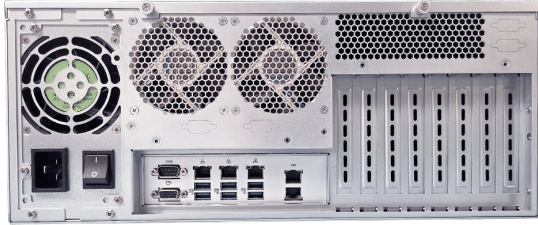
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Blue Line Industrial Server-1000



Highlights

Blue Line Industrial Server-1000 - Edge AI and high performance platform

Blue Line Industrial Server-1000 is designed for demanding industrial applications where high performance, reliability, and flexibility are essential. Built in a 4U rack mount format, it supports full height PCIe cards, enabling powerful GPUs, AI accelerators, and advanced expansion. This platform is ideal for Edge AI and real-time data processing.

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



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Blue Line Industrial Server-1000

- Fast & flexible industrial PC
- Intel Granite Rapids Workstation processor
- Windows 10/11, Server 2022/2025 & Linux
- Support wide range of GPU and FPGA
- Option for COM, USB, DIO, LAN
- Long product life cycle
- Short depth chassis (480mm)
- Build-to-order configured to the requirements

Specifications

Model Type

Rack PC / Tower

Form Factor

4U

Construction

Heavy duty cold rolled steel 1.2mm~2.0mm thick

Cooling

Two 120 x 120 x 38mm system front fan
Easy acces to front dustfilter (Washable)
Option for 240mm liquid cooling radiator
Support up to two 80 x 80 x 25mm rear fan
Option for low noise PWM fan
Option for high performance PWM fan

Environment



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Operating temperature	0°C to 60°C (-10°C to 70°C w/wide temp. Grade SSD & MEM)
Storage temperature	-30°C~70°C
Humidity	10% to 95%, non-condensing @ 40°C

Certification

CE

Processor

Intel Xeon 600 Series Granite Rapids Workstation Processor
Single Socket E2, LGA4710-2 (Up to 350W TDP)

Chipset

Intel W890 Chipset
AST2600 graphics engine
WINBOND BIOS. Model Name: W25Q512JVEIN
Watchdog Timer Software Programmable supports 1 to 255 sec. System reset
ST TPM 2.0 module. Model Name: ST33KTPM2X32CKE2

RAM

8 x DDR5 RDIMM & 3DS RDIMM Slots. (3DS RDIMM Up to 5200MT/s (2DPC) support up to 2TB / 256GB Pr. slot

Storage

2 x 5.25" drive bay
2 x 3.5" drive bay
Option for 3.5" or 2.5" Hotswap drive bay
Option for 2 x 2.5" internal drive

Front Input / Output

2 x USB 3.2 Gen1 Type A via internal header
Power on/off & reset button
Power status LED, HDD activity LED & dual LAN activity LED
Pull-out TAG 10 to 55mm, for COA labels / serial number identification



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Rear Input / Output

External	1 x VGA
	2 x Intel i210-AT 1GbE controller via RJ-45 LAN Port
	1 x Realtek RTL8211F (RGMII from AST2600, for IPMI) Via RJ-45 LAN Port
	4 x USB 3.2 Gen2 Type A (Support Wake on USB)
	2 x USB 3.2 Gen1 Type A (Support Wake on USB)
Internal	1 x RS-232/422/485 via DB9 Port
	Option for onboard Dual Intel E610 XAT2 10GbE via RJ-45 LAN Port
	4 x USB 3.2 Gen1 via header
	2 x Vertical Type-A USB 2.0 Connector
	1 x RS-232 via header
	2 x Vertical Slimline SAS connector, Support 8 x SATA3.0, or 2 x PCIe 4.0 x4 device*
	1 x 8 Bit GPIO via header
	Line In & Line Out via header (Codec ALC897)
	1 x SPI TPM header
	*PCIe Device support Intel VROC

Expansion



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Total PCIe Slots 7 (8 Slots Chassis Support up to 413mm expansion cards length)

Slot 1 - 1 x PCIe 5.0 x16 Slot (Activated by Expert1s)*

Slot 2 - 1 x PCIe 5.0 x16 Slot (Activated by Expert1s)*

Slot 3 - 1 x PCIe 5.0 x16 Slot (Mainstream)

Slot 4 - 1 x PCIe 5.0 x16 Slot (Only x8 Speed, Mainstream)

Slot 5 - 1 x PCIe 5.0 x16 Slot (Mainstream)

Slot 6 - 1 x PCIe 5.0 x16 Slot (Mainstream)

Slot 7 - 1 x PCIe 5.0 x16 Slot (Mainstream)

All slot are with Dedicated PCIe holder

2 x MCIO PCIe 5.0 x8 (2 x activated by Expert1s)*

*(Slot #1, #2 & MCIO will be activated by Expert1s SKU processor)

2 x M.2 M-key, Type 22110/2280 (PCIe 5.0 x4 from CPU, Support IntelVROC*)

*Note: Intel VROC offers basic functionality included with the Platform Controller Hub (PCH) with the option to add three RAID enabled feature sets (Standard, Premium, RAID1 Only).

Operating System

Windows 10/11

Windows 10/11 IoT Enterprise

Windows Server 2022/2025

Ubuntu 24.04.3 LTS

Power Supply



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Industrial PSU 850W	ATX 12V v3.1, 80mm double ball bearing FAN, AC input, 80 PLUS Platinum
	IEC 62368-1 compliant
	ErP Lot 6 2013 compliant
Option	EMI/EMC: CE and FCC Class B
	Safety: CB 62368, TUV 62368, UL 62368
	Option for Industrial PSU 2000W ATX 12V v3.1, 80mm FAN, 200~240V AC IEC-C19 input, Dual PCIe Gen5, 80 PLUS Platinum, FCC and CE approved
	Option for hotswap Mini-Redundant 500W, 700W, 900W, 80 PLUS Gold PSU
	Option for Marine graded PSU with Safety clamp at AC inlet and Reinforced Protection against shock and vibration

Power Consumption

TBD

Dimension and Weight

19"/Tower	H 177,30 x W 430,00 x D 480,00mm
19" w/Rack mount kit	H 177,30 x W 482,00 x D 516,50mm
Package	H 260,00 x W 550,00 x D 600,00mm
Net weight	About 15 kg (standard configuration)
Gross weight	About 16 kg (standard configuration)

Mounting

Rack mount



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Accessories Included

Rack Mounting kit

Hold down retention bar with clamps for PCI/PCIe Cards (Maximum high for expansion cards with this bar installed is 130mm and 145mm without)

Accessories Optional

Fix Rear rack mounting kit for server chassis

Rack mount slide rail kit for server chassis (600mm 2-layer 3-travel universal rail (cabinet internal depth 600~1200mm compliant))

Chassis intrusion detector

Dedicated HW RAID controller

Intel Virtual RAID on CPU

Intel VROC Standard SKU (RAID 0/1/10) VROCSTANMOD Licensing*

Intel VROC Premium SKU (RAID 0/1/5/10) VROCPREMMOD Licensing*

*Intel VROC Hardware key is required

Ethernet Add on card (Copper or Fiber connector)

Video frame grabber Add on card

Power over Ethernet Add on card (2 x 30W port or 4 x 30W port) w/Intel I226V controller

1 x 3.5" Bay in 5.25" bay bracket

1 x 2.5" Rugged Hot-swap w/Thumbscrews and key lock in 3.5" bay

2 x 2.5" Trayless Hot-swap w/key lock in 3.5" bay

4 x 2.5" Trayless Hot-swap w/key lock in 5.25" bay

Air-shroud bracket for Nvidia A100/H100/Pro6000 GPU

Warranty and After Sales Support

Standard 1 year (option for 3 years)



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