

Blue Line 3U VPX CPU Intel® Xeon® 6



BLUE LINE
IT for Demanding Environments

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

The Blue Line 3U VPX CPU Intel® Xeon® 6 delivers powerful processing performance for compute intensive defense and mission critical applications. Developed in alignment with the SOSA® Technical Standard, it combines up to 32 processor cores, large DDR5 memory capacity and high speed connectivity in a rugged 3U VPX platform. Powerful computing where you need it



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Handle demanding workloads with up to 32 Intel® Xeon® 6 processor cores and up to 256 GB Registered DDR5 ECC memory. The combination of high processing capacity and server grade memory gives your VPX system the performance needed for data intensive applications while maintaining a compact 3U form factor.

High speed system connectivity

Keep data moving efficiently across your VPX system with configurable 40/100 Gigabit Ethernet and PCI Express® Gen 5 connectivity. With up to x16 PCIe available for communication with adjacent Plug in Cards, the platform supports high bandwidth architectures where fast data exchange between system components is essential.

Built for demanding environments

Maintain reliable computing performance in environments exposed to extreme temperatures, shock and vibration. The rugged 3U VPX design uses Air Flow Through cooling and supports an operating temperature range from minus 40°C to plus 70°C, making it suitable for demanding defense and mission critical systems.

- Rugged 3U VPX compute intensive Plug in Card
- SOSA® aligned
- Intel® Xeon® 6 processor
- Available with 32 core or 20 core processor
- Intel® vRAN Accelerator on 20 core variant
- Up to 256 GB Registered DDR5 ECC memory
- 40/100GBASE KR4 Ethernet Data Plane
- Up to x16 PCI Express® Gen 5 Expansion Plane
- Optional M.2 NVMe storage
- Opal 2.0 security encryption and hardware write protection
- TPM 2.0 and Secure Boot support
- Air Flow Through cooling
- Operating temperature from minus 40°C to plus 70°C
- Linux® support

Specifications



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Model Type

3U VPX CPU Board (PIC)

Form Factor

3U VPX

Construction

Rugged air flow through

Cooling

Air flow through cooled (VITA 48.8)

Environment

Operating temperature	-40°C to +70°C
Non-operating temperature	-55°C to +105°C
Humidity	5% to 95% RH, non-condensing

Processor

Intel® Xeon® 6543P-B, 32-core, 160W
Intel® Xeon® 6516P-B, 20-core, 145W
Intel® vRAN Accelerator on 20-core variant

RAM

Up to 256 GB Registered DDR5 ECC DRAM

Storage

Optional M.2 NVMe storage
PCIe Gen 4 x4 interface
Opal 2.0 encryption
Hardware write protection



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Input / Output

2 x maintenance ports
DisplayPort
USB 3.2
Up to 7 x GPIO
10/40/100 Gigabit Ethernet

Expansion

Up to x16 PCI Express® Gen 5
CXL 2.0

Special Function

SOSA® aligned
Optional Built-In Test support
TPM 2.0
Secure Boot

Operating System

Linux®

Warranty and After Sales Support

Standard 1 year (option for 3 years)



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