



LAND



SEA



AIR

HORUS560

4U 19" MILITARY HIGH-PERFORMANCE
NVME RAID STORAGE SERVER



- 4U 19" Military NVMe RAID Storage HPC
- Intel® Xeon® 6700P-series, 6500P-series, 6700E-series processors
- 8+8 DIMM slots ; supports DDR5 RDIMM
- 8 x Swappable 2.5" NVMe U.2 Bay(15mm)
- Optional for RAID support (0/1/5/6/10/50/60)
- Expansion Slot 6xHHFL, or 2xFHFL+1x HHFL
- 1 x IPMI, 2 x 10GbE, 1 x VGA, 4 x USB Ports
- AC-IN 100V~240V 1200W ATX PSU
- MIL-STD-810 Shock, Vibration, Humidity design to meet
- CE /Safety design to meet

INTRODUCTION

The **4U 19" Military NVMe RAID Storage HPC** is engineered to address the demands of high-throughput data acquisition and mission-critical processing environments. Built on Intel® Xeon® 6700P, 6500P, and 6700E series processors, and supporting up to 16 DDR5 RDIMM/MRDIMM modules (1DPC), the platform delivers scalable compute density and memory bandwidth required for data-intensive edge and defense applications.

The system integrates eight front-accessible, hot-swappable 2.5" U.2 NVMe drive bays, supporting RAID 0/1/5/6/10/50/60 configurations to ensure both high sustained I/O performance and data integrity. Combined with dual 10GbE interfaces, dedicated IPMI for out-of-band management, and comprehensive I/O connectivity, the architecture is optimized for continuous data logging, storage aggregation, and real-time data handling.

Designed for deployment in harsh operational environments, the platform complies with MIL-STD-810 requirements for shock, vibration, and humidity, while adhering to CE and safety standards. Its ruggedized mechanical and electrical design ensures system stability, reliability, and long-term operability under extreme environmental and mission-critical conditions.

Specifications

SYSTEM

High Performance Processor	Supports Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
Chipset	System on chip
Memory type	8+8 DIMM slots, DDR5 RDIMM 6400MT/s
BIOS	AMI UEFI BIOS 512Mb SPI Flash ROM
TPM	1 x TPM 2.0(w/module)

DISPLAY

VGA	Resolution up to 1920 x 1200 @60Hz
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EXPANSION

M.2	2 x M.2 2280/22110 M-key (PCIe 5.0 x2)
Expansion Slot	6 x HHHL (Single Slot) or 2x FHFL + 1x HHFL (Dual Slot)

STORAGE

NVMe U.2	8 x 2.5" NVMe U.2 Swappable
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Optional : RAID 0/1/5/6/10/50/60

SATAIII	1 x 2.5" SATAIII Swappable
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RAID(OPTIONAL)

RAID Card	Broadcom MegaRAID 9560-16i PCIe Gen 4.0 Tri-Mode Card
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ETHERNET

Ethernet	2 x Intel®X710-AT2 LAN
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SERVER MANAGEMENT

BMC Controller	ASPEED AST2600
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IPMI Dedicated GLAN	1 x Realtek RTL8211F for dedicated management GLAN
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FRONT I/O

NVMe U.2 Tray	8 x NVMe U.2 Swappable Tray (2.5" 15mm)
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SATAIII Tray	1 x SATAIII Swappable Tray (2.5" 7mm)
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USB	2 x USB3.0
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Indicator LED	Power / SSD / System LED
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Button	1 x Power Button with Dedicated LED
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FAN	4 x FAN Cooler
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REAR I/O

Ethernet	2 x 10GbE
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IPMI	1 x IPMI w/GLAN
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VGA	1 x VGA
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USB	2 x USB3.0
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Expansion	6 x HHHL (Single slot) Or 2x FHFL+1x HHFL(Dual Slot)
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POWER REQUIREMENT

Power Input	100V~240V AC-IN 1200W ATX PSU (Optional) 100V~240V AC-IN 2400W CRPS Redundant ATX PSU
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OPERATING SYSTEM

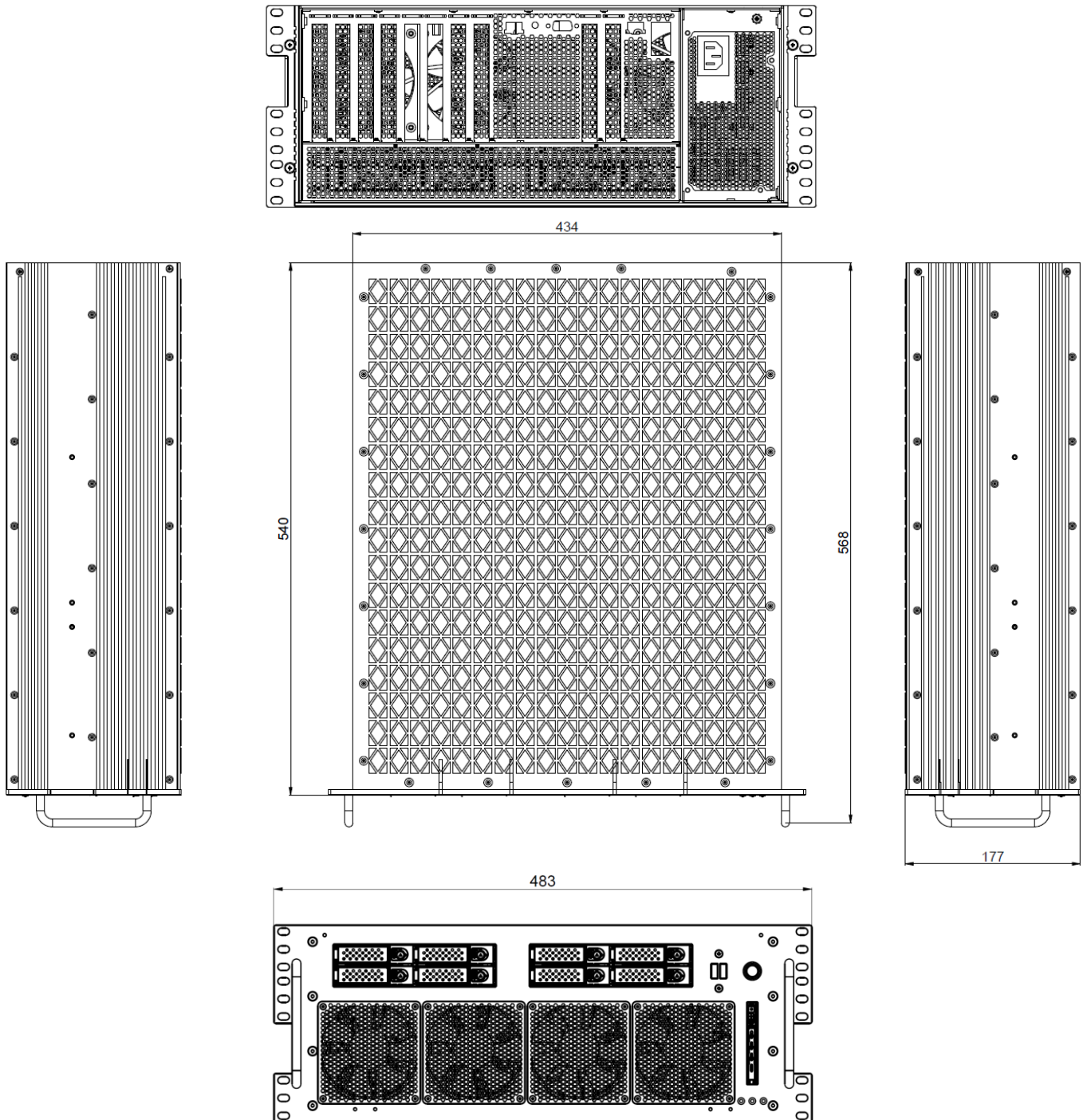
Operating System	Microsoft® Windows - Server 2022/2025 (64 bit) Linux - Red Hat Enterprise Linux Server 9.4 (64 bit) - SUSE Enterprise Linux Server 15 SP6 (64 bit)
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- Ubuntu 24.04 (64 bit)

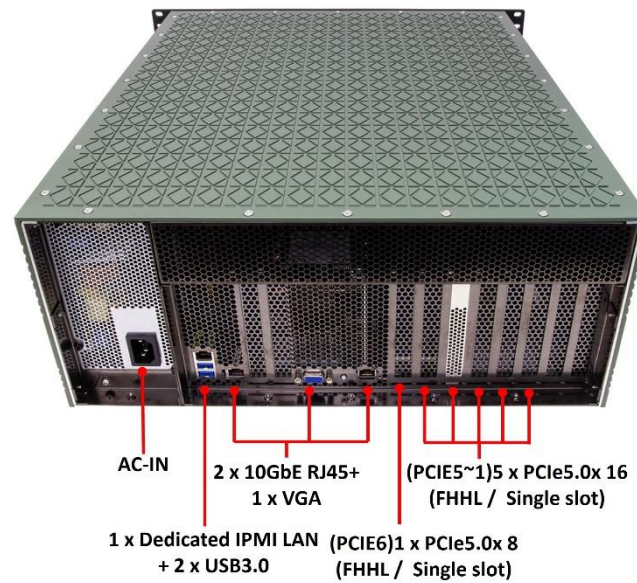
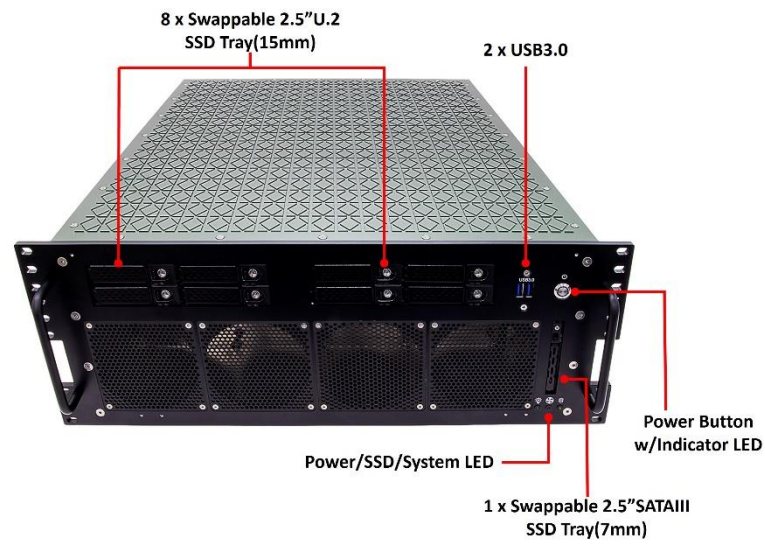
PHYSICAL & ENVIRONMENT

Dimension (W x D x H)	430 x 540 x 177mm
Chassis	Aluminum
Thermal	Air Cooled
Operating Temperature	0 to 40°C
Storage Temperature	-40 to 70°C
Relative Humidity	10% to 95%, non-condensing
MIL-STD-810 Design to meet	Method 507.5, Procedure II (Temperature & Humidity) Method 516.6 Shock-Procedure V Non-Operating (Mechanical Shock) Method 516.6 Shock-Procedure I Operating (Mechanical Shock) Method 514.6 Vibration Category 24/Non-Operating (Category 20 & 24, Vibration) Method 514.6 Vibration Category 20/Operating (Category 20 & 24, Vibration)
CE/FCC Design to meet	EN55032 & 35 IEC 61000-3-2 / IEC 61000-3-3 IEC 61000-4-2 / IEC 61000-4-3 / IEC 61000-4-4 / IEC 61000-4-5 IEC 61000-4-6 / IEC 61000-4-8 / IEC 61000-4-11 FCC 47 CFR Part 15 Subpart B
Safety Design to meet	IEC 62368-1:2018

Dimension



Appearance



Ordering Information

HORUS560-RE

4U 19" Military NVMe RAID Storage HPC with Intel® Xeon® 6700P/6500P/6700E processors, up to 16 x DDR5 RDIMM/MRDIMM, 8 x 2.5" U.2 NVMe (15mm), 2 x 10GbE, IPMI, 6 x HHHL expansion slots, 100~240V AC-IN 2400W CRPS Redundant PSU, Operating Temp. 0~40°C

HORUS560-RA

4U 19" Military NVMe RAID Storage HPC with Intel® Xeon® 6700P/6500P/6700E processors, up to 16 x DDR5 RDIMM/MRDIMM, 8 x 2.5" U.2 NVMe (15mm), RAID 0/1/5/6/10/50/60, 2 x 10GbE, IPMI, 6 x HHHL expansion slots, 100~240V AC-IN 1200W PSU, Operating Temp. 0~40°C

This datasheet is for marketing purposes only and does not constitute a warranty. All specifications, dimensions, and data are subject to change without notice. For the latest specifications and updates, please contact your 7STARLAKE representatives.