



LAND



SEA



AIR

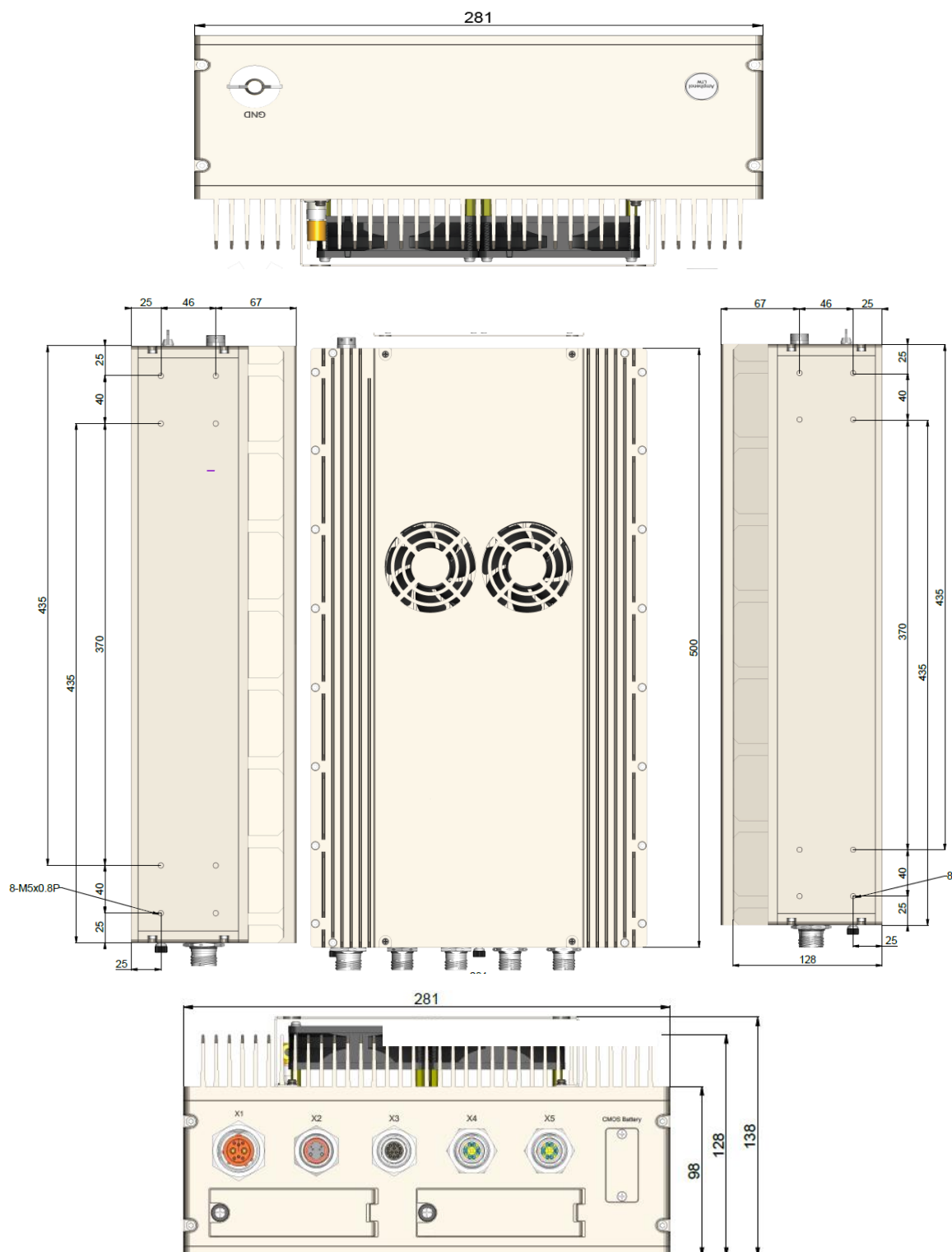
SR800-E16

MILITARY IP65 HC2 COMMAND SERVER
POWERED BY 4TH/5TH GEN INTEL® XEON®
SP PROCESSORS

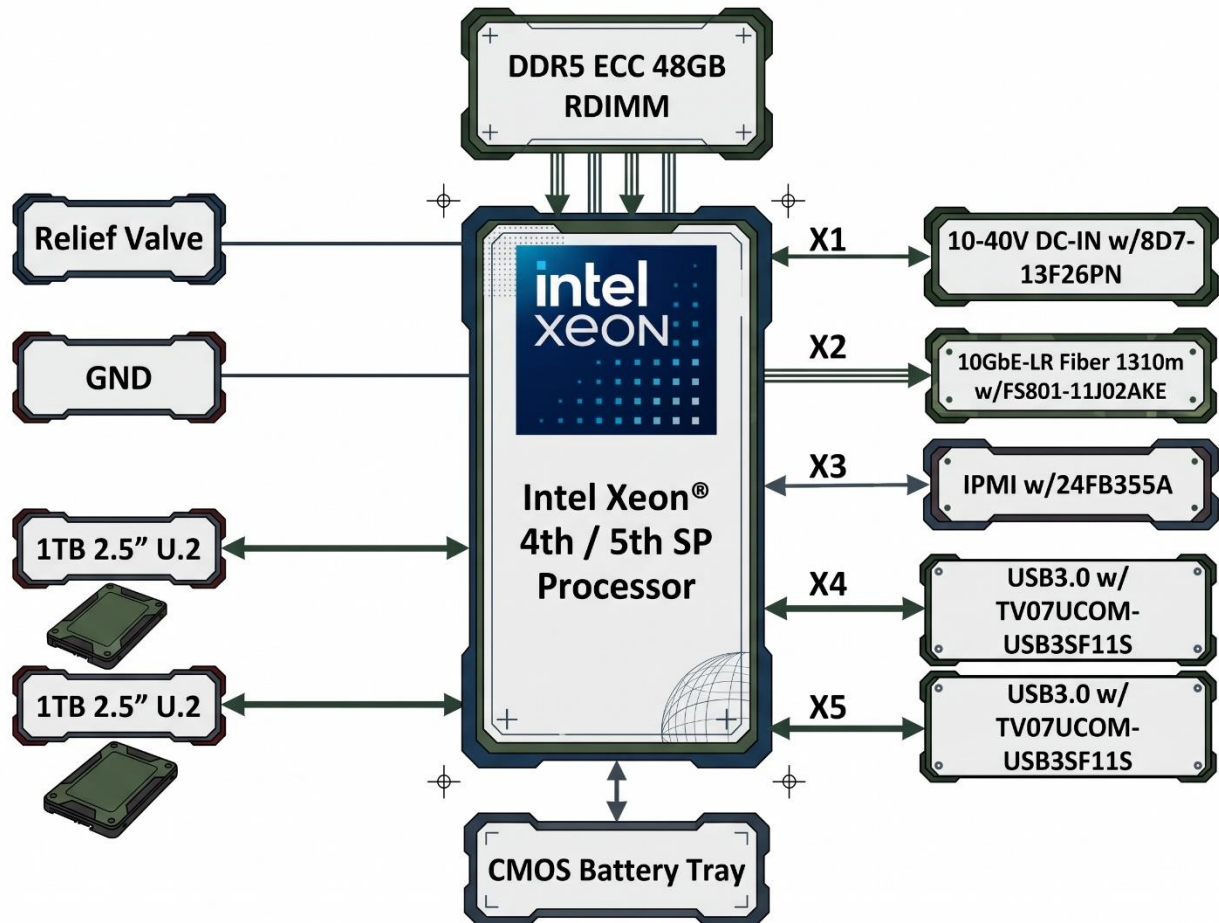


- Powered by 4th/5th Gen Intel® Xeon® Scalable processor
- Features 10GbE-LR Fiber network connection via rugged connectors.
- Integrated TPM 2.0 and ASPEED AST2600 BMC for IPMI 2.0.
- Easy maintenance with swappable dual U.2 NVMe SSDs and CMOS battery trays.
- Flexible power system supporting a wide 10V to 40V DC-IN.
- IP65 rated, designed to meet MIL-STD-810, 461, and 1275.
- Coated with anti-yellowing and anti-aging finish for military standards.
- Compact rugged chassis design measuring 281 x 500 x 138 mm.
- Operating temperature range spanning from -46°C up to 71°C.

Dimension

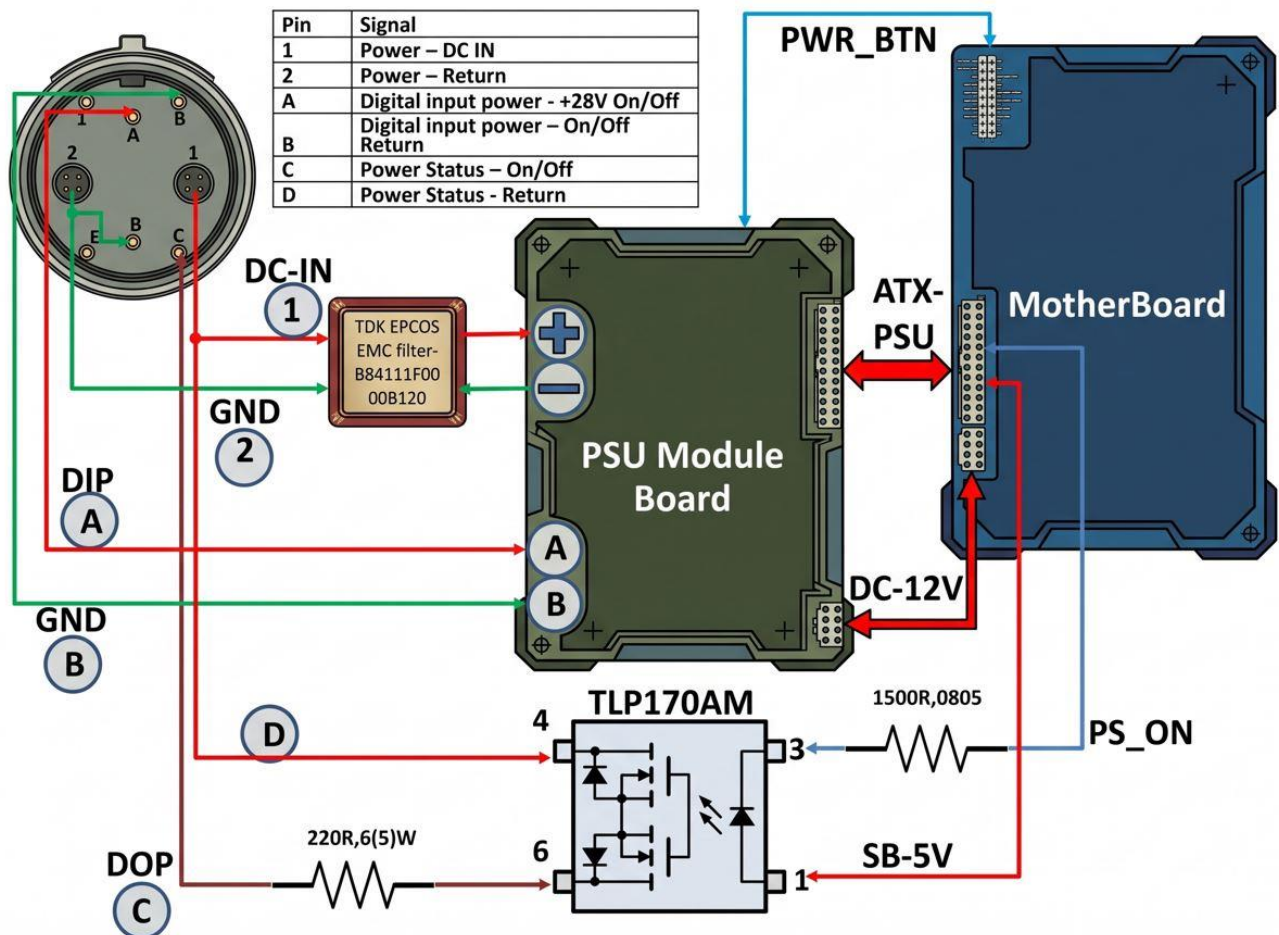


System Diagram



Power Block Diagram

This Power Module features military-grade remote power control and status feedback (DIP/DOP). It utilizes optocoupler isolation (TLP170AM) to safely manage power signals and return system status, ensuring high stability and safety in harsh vehicular environments.



Specifications

SYSTEM

High Performance Processor	Intel® Xeon® Gen 4 th /5 th Scalable processor ● Intel® Xeon® Gold 5416S FCLGA4677 Processor 16C/32Threads 30M Cache, Frequency base 2.00GHz, up to 4.00 GHz., TDP up to 150W ● Intel® Xeon® Gold 5512U FCLGA4677 Processor 28C/56Threads 52.5M Cache, Frequency base 2.10GHz, up to 3.70 GHz., TDP up to 185W ● Intel® Xeon® Gold 5520+ FCLGA4677 Processor 28C/56Threads 60M Cache, Frequency base 2.20GHz, up to 4.00 GHz., TDP up to 205W ● Intel® Xeon® Gold 6538N FCLGA4677 Processor 32C/64Threads 60M Cache, Frequency base 2.10GHz, up to 4.10 GHz., TDP up to 205W
Chipset	Intel C741® Chipset
Storage Controller:	Integrated PCH RAID, supported RAID Levels: 0, 1, 5, 10 (for SATA drives)
Memory type	48GB ECC RDIMM, DDR5-4400MT/s
TPM	TPM 2.0(Integrated TPM 2.0 module provides Common Criteria EAL 4 security)
IPMI	ASPEED AST2600 BMC on board (Dedicated IPMI 2.0 LAN for remote management - AST2600)
FAN	2 x Waterproof FAN
RTC Backup	PCH C741 RTC uses CR2032 backup power for retention when main power is removed.

STORAGE

SDD	2 x 2.5" 1TB U.2 NVMe 3D-TLC SSD
-----	----------------------------------

FRONT I/O

X1	10~40V DC-IN w/TVS07RF-13-26P(Substitute 8D7-13F26PN)
X2	10GbE-LR Fiber 1310m w/FS801-11J02AKE
X3	Dedicated IPMI 1GbE LAN w/ 24FB35SA
X4	USB3.0 w/TV07UCOM-USB3SF11S(Substitute TV07UCOM-USB3CF11S)
X5	USB3.0 w/TV07UCOM-USB3SF11S(Substitute TV07UCOM-USB3CF11S)
SSD Tray	2 x Swappable SSD Tray (Swappable SSD trays allow quick, easy, tool-less drive removal)
CMOS Tray	1 x Swappable CMOS Tray

REAR I/O

GND	1 x GND
-----	---------

Pressure Relief Valve	1 x Amphenol LTW
-----------------------	------------------

POWER REQUIREMENT

Power	10~40V DC-IN
-------	--------------

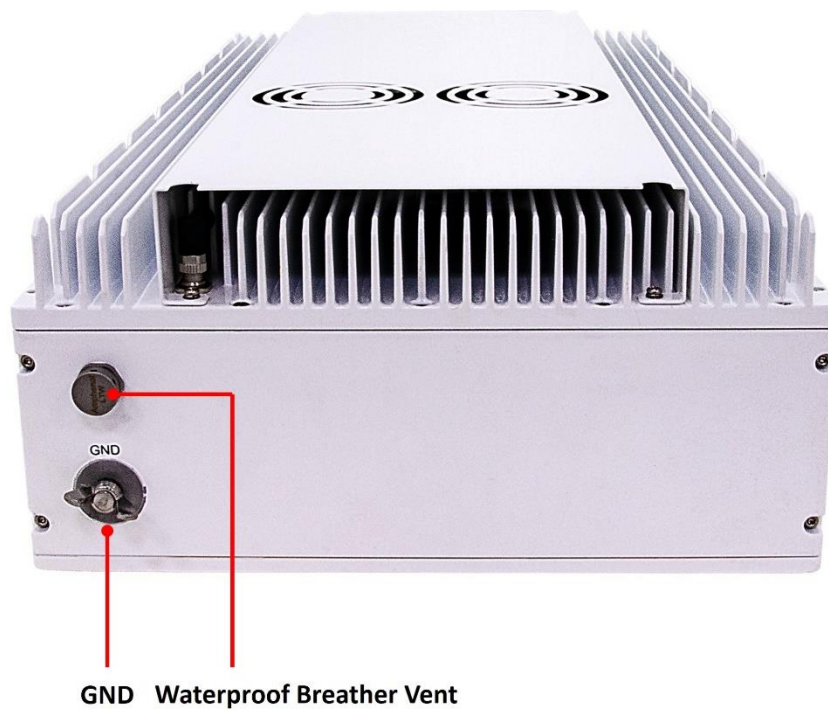
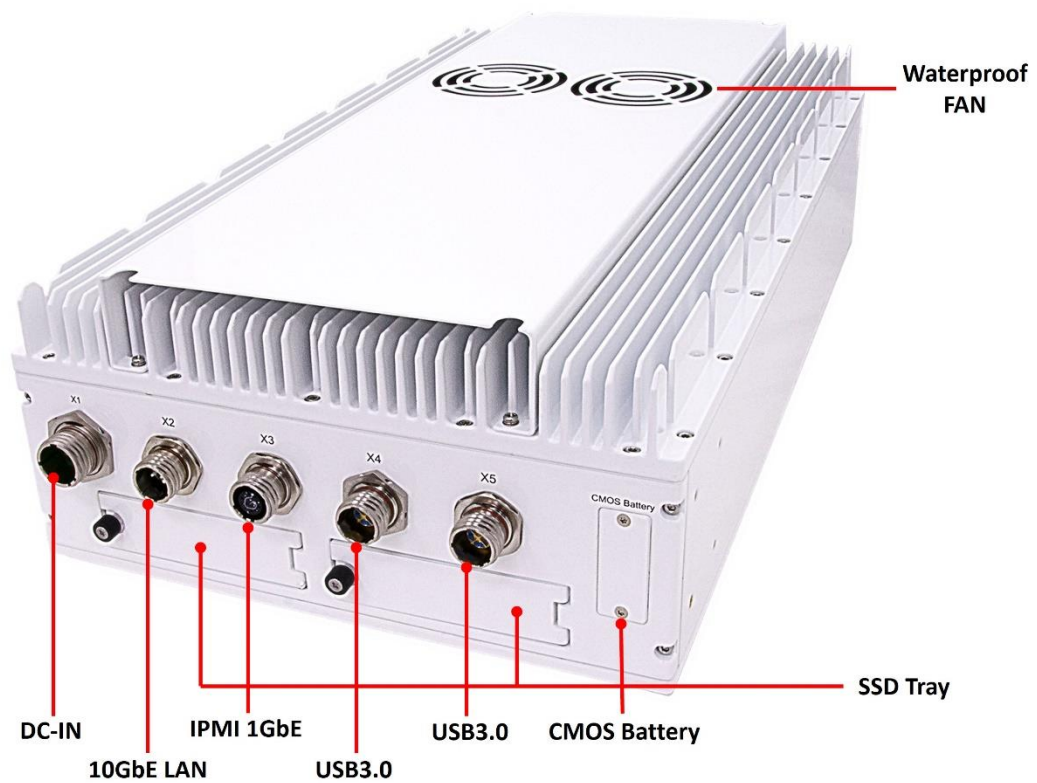
OPERATING SYSTEM

Operating System	Windows 10 64-bit Enterprise Windows 10 64bit Pro Workstations Windows 10 IoT 64-bit Enterprise Windows 11 64-bit Enterprise Windows 11 64bit Pro Workstations Windows 11 IoT 64-bit Enterprise Windows Server 2019 64-bit Windows Server 2022 64-bit Windows Server 2025 64-bit RHEL 8.5 64bit RHEL 8.6 64bit RHEL 9.0 64bit RHEL 9.2 64bit CentOS 8.5 64bit CentOS 8.6 64bit Rocky Linux 8.5 64-bit openSUSE Leap 15.4 64-bit SLES 15 SP3 64-bit Ubuntu 22.04 64-bit Server Ubuntu 21.10 64-bit Server VMware ESXi 7.0u3d x64 VMware ESXi 8.0x64
------------------	---

PHYSICAL & ENVIRONMENT

Dimensions (W x D x H)	281 x 500 x 138 mm
Weight	20 KG (W/O external I/O cables)
Operating Temperature	-46 to 71°C
Storage Temperature	-46 to 85°C
MIL-STD-461	MIL-STD-461 Design to meet
MIL-STD-1275	MIL-STD-1275 Design to meet
MIL-STD-810	MIL-STD-810 Design to meet

IO Placement



Ordering Information

SR800-E16

Military IP65 Rugged Command Server powered by 4th/5th Gen Intel® Xeon® Scalable Processor, featuring DDR5 ECC RDIMM, swappable U.2 NVMe SSD trays, 10GbE Fiber, IPMI 2.0, TPM 2.0, Amphenol circular connectors, and 10–40V DC-IN, operating from -46°C to 71°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.