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XRS 2U S7 Series Extreme Rugged Edge Servers

The **XRS Series** is a family of Extreme Rugged Servers optimized for Edge applications, where they offer superior robustness and high-performance computing technology.

The **XRS 2U S7 Series** features a powerful single or dual socket 3rd Gen Intel® Xeon® Scalable Processors Platform, suitable for the most intense workloads and supporting a generous number of PCIe 4.0 lanes available as PCIe, M.2, and NVMe slots. The integrated IPMI services enhance Edge operations by supporting monitoring, control, and management functions, sending alarm notifications in case of critical events.

These servers have a 2U milled aluminium chassis designed for superior resistance and torsional strength, ideal for the physical demands of Edge computing. The **XRS 2U S7 Series** offers a depth of 450 mm with standard I/O connectors and 475 mm when equipped with round MIL-grade connectors for enhanced durability in the I/O ports and power input. They can host up to four low-profile PCIe boards, including GPUs, FPGA modules, and other powerful PCI Express boards. The front panel includes air filters and features two horizontal doors with thumbscrews to protect access to removable drives, USB connectors, and the power button, with an optional key lock for additional security. The **XRS 2U S7 Series** also includes three 3.5" drive bays that can accommodate up to nine removable SSDs.

Qualified according to MIL-STD-810G for temperature, shocks, and vibrations, and conforming to MIL-STD-461 for EMI/EMC, the **XRS Series** Extreme Rugged Servers are robustly built to meet the stringent requirements of Edge computing environments.





High Performance Dual 3rd Gen Intel® Xeon® Scalable Processors Platform





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Extreme Rugged Aluminum Chassis

Up to 9x SSD Drives

Optional round MIL connectors

MIL Grade Qualifications

Technical Specifications

Power Input

System	
CPU	3 rd Gen Intel [®] Xeon [®] Scalable P
Memory	Up to 2TB RDIMM, DDR4-3200
Chipset	Intel [®] C621A
Network Connectivity	2x RJ45 10 Gigabit Ethernet LA 1x RJ45 Dedicated IPMI LAN p
Serial	1x COM port (1 header)
USB	5x USB 3.2 Gen1 ports (2 via he
Storage	On board: 2x M.2 PCle 4.0 x4; M.2 Form F 2x SATA DOM Removable: 3x 2.5" SAS SSD or 6x U.2 NVM
TPM	TPM Header
I/O connectors	2x 10GbE, 1x IPMI, 2x USB 3.2,
Expansion slots	4x PCIe 4.0x16 low profile
Operative Systems	Windows® 11 IoT Enterprise; W Windows Server 2016; RHEL 8.
IPMI	IPMI2.0, SPM, Watchdog; SNM
Remote Monitoring	Monitoring, control and manag power consumption, disk healt

AC or DC input, redundant PSL Optional EMC Filter and MIL D Standard rear I/O and MIL grad

Mechanical	
Dimensions (W x D x H)	Width 483mm Depth 450mm - standard I/O por Depth 475mm - MIL grade conne Height 88mm - 2U rack
Material	Milled Aluminum chassis with su AISI316L Stainless steel rear par
Weight	<= 15 Kg (depending on configura
Colour	Black / RAL 9005 - Powder Coati
Mounting	2U 19" rackmount chassis with b
Front Panel	IP30 double-door front panel wit Power ON with led; 2x USB 3.0; R
Rear Panel	Standard I/O connectors: 450mn

Standard: -5°C to +55°C accord Extended: -20°C to +60°C (depe
-40°C to +71°C according to MI
5% to 95% non-condensed acco
Conformal coating on request
40g, 11ms functional shock on
Functional : MIL-STD-810G Cha Transportation: MIL-STD-810G
According to MIL-STD-461G wi
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rocessors, Dual Socket LGA-4189 supported, max 270W TDP MHz; in 8 DIMM slots

N ports ort

eader + 2 rear + 1 type A)

actor: 2280/22110, 2280; M-Key

le SATA SSD or 9x 2.5" SATA SSD

VGA

indows® 10 IoT Enterprise LTSC; Windows Server 2022; Windows Server 2019; 2 64bit; Ubuntu 20.04.2 LTS SVR 64bit; CentOS 7.9 64bit

P and e-mail alarms and notifications

ement functions (fan speed, temperature, voltage, redundant power failure, h, raid health, and memory health)

38999 connector with single power supplies de power input stay in 450mm depth

orts and industrial / MIL grade power input nectors

surface passivation treatment;

anel

uration)

atingw

hbridge handles

ith air filters. Optional door-less front panel

Remote Battery Holder

nm depth

Optional D38999 MIL type connectors on I/O and Power Input: 475mm depth

ling to MIL-STD-810G Change 1 (501.6 & 502.6). ending on configuration)

L-STD-810G Change 1 (501.6 & 502.6)

ording to MIL-STD-810G Change 1 (506.7 Procedure II)

each direction, according to MIL-STD-810G Change 1 (516.7 Procedure I) ange 1 (514.7, Category 20 Procedure I - Wheeled vehicle) G Change 1 (514.7, Category 7 Procedure I - General exposure) ith EMI Filter and MIL type connectors



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KEEP IN TOUCH

