



# XRS 3U S8 SOLO Series

EXTREME RUGGED

EDGE SERVERS

[www.gomarugged.com](http://www.gomarugged.com)

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## 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 3U S8 SOLO** offers rugged performance with a single 5<sup>th</sup>/4<sup>th</sup> Gen Intel® Xeon® Scalable Processor, featuring advanced security, PCIe 4.0/5.0 support, and AI acceleration. It is an ideal solution for cost-sensitive, power-constrained, and moderate workload environments, providing robust computing for demanding Edge applications without the complexity and overhead of dual processors. The integrated IPMI services enhance Edge operations by supporting monitoring, control, and management functions, sending alarm notifications in case of critical events.

This series features a 3U milled aluminium chassis providing unmatched resistance and torsional strength essential for Edge computing sites, which often face extreme operational demands. It offers configurations with depths of 430mm or 510mm for standard or round MIL-grade I/O connectors, respectively, catering to the specific needs of Edge infrastructure.

Capable of accommodating up to five full-height, full-length PCIe boards, including GPUs and FPGA modules, and designed for high-density storage with the capacity for up to twelve removable SSDs, the **XRS 3U S8 SOLO Series** is robust and versatile. It also includes air filters and protective horizontal doors with thumbscrews for its front panel, with an optional key lock or a door-less variant available upon request, ensuring secure and reliable operation.

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  
Single 5<sup>th</sup> / 4<sup>th</sup> Gen Intel® Xeon®  
Scalable Processors Platform**



**IPMI Based Management**



**Extreme Rugged  
Aluminum Chassis**



**Up to 8x 2.5" SSD**



**Optional round MIL connectors**



**MIL Grade Qualifications**

## Technical Specifications

System	
CPU	5 <sup>th</sup> Gen Intel® Xeon® / 4 <sup>th</sup> Gen Intel® Xeon® Scalable Processors, Single Socket LGA-4677 (Socket E) supported, CPU TDP Up to 270W
Memory	Up to 2TB ECC RDIMM, DDR5-4800MT/s in 8 DIMM slots
Chipset	Intel® C741
Network Connectivity	1x Dedicated IPMI LAN port 2x 10GbE with RJ45 connectors
USB	2x USB 2.0 ports (2 rear) 4x USB 3.2 Gen1 ports (2 rear; 1 via header; 1 type A)
Storage	Internal: 2x M.2 NVMe; M-Key, 2280/22110 2x SATA Disk on Module Removable: Up to 4x 2.5" SAS SSD or Up to 8x U.2 NVMe SSD or Up to 8x 2.5" SATA SSD
TPM	TPM Header
I/O connectors	1x BMC LAN, 2x USB 3.2, 2x USB 2.0, 2x 10GbE, 1x VGA (available on the rear panel)
Expansion slots	3x PCIe 5.0 x8, 2x PCIe 5.0 x16 slots
Operative Systems	Windows® 11 IoT Enterprise; Windows® 10 IoT Enterprise LTSC; Windows® Server 2022; Windows® Server 2019; RHEL 8.5 64bit; Ubuntu 20.04.6 LTS 64bit; CentOS 8.5 64bit
IPMI	IPMI2.0, SPM, Watchdog; SNMP and e-mail alarms and notifications
Remote Monitoring	Monitoring, control and management functions (fan speed, temperature, voltage, redundant power failure, power consumption, disk health, raid health, and memory health)

Power Section	
Power Input	AC or DC input, redundant PSU. Optional EMC Filter and MIL D38999 connector with single power supply.

Mechanical Features	
Dimensions (W x D x H)	Width 483mm Depth 430mm - standard I/O ports and power input / MIL power input Depth 510mm - MIL grade connectors on I/O ports and power input Height 132,5mm - 3U rack
Material	Milled Aluminum chassis with surface passivation treatment; AISI316L Stainless steel rear panel.
Weight	<= 11,3 Kg (depending on configuration)
Colour	Black / RAL 9005 - Powder Coating
Mounting	3U 19" rackmount chassis with bridge handles
Front Panel	IP30 double-door front panel with air filters. Optional door-less front panel. Power ON with led; 1 x USB 3.0; Remote Battery Holder.
Rear Panel	Standard connectors. Optional D38999 MIL type connectors for Power Input. Optional D38999 MIL type connectors for Power Input and I/O.
Fan Unit	Removable 4x 60mm fans

Environmental Features	
Operating Temperature	Standard: -5°C to +55°C according to MIL-STD-810G Change 1 (501.6 & 502.6) Extended: -20°C to +60°C (depending on configuration)
Storage Temperature	-40°C to +71°C according to MIL-STD-810G Change 1 (501.6 & 502.6)
Humidity	5% to 95% non-condensed according to MIL-STD-810G Change 1 (506.7 Procedure II)
Fungus	Conformal coating on request
Shock	40g, 11 ms functional shock on each direction, according to MIL-STD-810G Change 1 (516.7 Procedure I)
Vibrations	Functional: MIL-STD-810G Change 1 (514.7, Category 20 Procedure I - Wheeled vehicle) Transportation: MIL-STD-810G Change 1 (514.7, Category 7 Procedure I - General exposure)
EMC / Electromagnetic Compatibility	According to MIL-STD-461G with EMI Filter and MIL type connectors on power input



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