





EXTREME RUGGED SERVERS

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XRS 2U S7 Series EXTREME RUGGED SERVERS

XRS Series is a product family of Extreme Rugged Servers that distinguish themself for the superior robustness and the high performance computing technology. XRS Series Rugged Servers are designed for applications that require a MIL-grade qualified equipment, suitable for operations in very critical environment.

The XRS 2U S7 Series features a powerful single or dual socket 3rd Gen Intel[®] Xeon[®] 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 support monitoring, control, and management functions sending alarm notifications in case of critical events.

The XRS S7 Series Extreme Rugged Servers has a 2U milled aluminum chassis designed to provide for superior resistance and torsional strength. The XRS 2U S7 Series has a reduced 450mm depth in the version with standard I/O connectors and a 475mm depth when equipped with round MIL-grade connectors for the I/O ports and the power input. The XRS 2U S7 Rugged Servers can host up to four low profile PCIe boards including GPU, FPGA modules and any other powerful PCI Express board. The front panel is provided with a air filters and consists of two horizontal doors with thumbscrew to protect the access to the removable drives, to the USB connectors and to the power button. Optionally a key lock closing can be mounted. XRS 2U S7 Series comes with three 3.5" drive bays that can host up to nine removable SSDs.

XRS Series Extreme Rugged Servers are qualified according to MIL-STD-810G for temperature, shocks and vibrations, and conforms to MIL-STD-461 for EMI/EMC. Specific customer's configurations can be delivered fully integrated and tested.



Product Features



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MIL Grade Qualifications



System	
CPU	3rd Gen Intel [®] Xeon [®] Scalable P
Memory	Up to 2TB RDIMM, DDR4-3200
Chipset	Intel [®] C621A
LAN	2x RJ45 10 Gigabit Ethernet LA 1x RJ45 Dedicated IPMI LAN po
Serial	1x COM Port (1 header)
USB	5x USB 3.2 ports (2 rear + 2 via
Storage	2x SATA DOM 12x SATA 3 ports (6GbE) - RAIE
TPM	TPM Header
I/O Ports	2x 10GbE, 1x IPMI, 2x USB 3.2,
I/O Expansion	4x PCIe 4.0x16 low profile M.2 Interface: 2 PCIe 4.0 x4; M.
Software	Windows [®] 10 IoT Enterprise 64 Ubuntu 20.04.2 LTS SVR 64bit;
IPMI	IPMI2.0, SPM, Watchdog; SNM
Remote Monitoring	Monitoring, control and mana power consumption, disk healt

Power Section

t

Mechanical Features

Dimensions (W x D x H)	Width 483mm Depth 450mm - standard I/O por Depth 475mm - MIL grade conn Height 88mm - 2U rack
Material	Aluminum with surface passivat
Weight	<= 13 Kg (depending on configur
Color	Black / RAL 9005 - Powder Coat
Mounting	2U 19" rackmount chassis with b
Front Panel	Double-door front panel with air Power ON with led; Power Fail; 2
Drive Bay	3x 3.5" drive bays hosting up to 9
Rear Panel	Standard connectors, Optional D

Environmental Features	
Operating Temperature	Standard: -5°C to +55°C accordi Extended: -20°C to +60°C (deper
Storage Temperature	-40°C to +71°C according to MIL
Humidity	5% to 95% non-condensed (depe
Fungus	Conformal coating on request
Shock	20g, 11ms functional shock on eac 40g, 11ms crash hazard shock on
Vibrations	MIL-STD-810G, Method 514.7
Electromagnetic Compatibility	According to MIL-STD-461G (or



Processors, Dual Socket LGA-4189 supported, max 270W TDP DMHz: in 8 DIMM slots

AN ports port

headers + 1 type A)

D 0,1,5,10

, VGA

I.2 Form Factor: 2280/22110, 2280; M.2 Key: M-Key

4bit, Windows[®] Server 2016 64bit; Windows[®] Server 2019 64bit; RHEL 8.4 64bit; t; CentOS 7.9 64bit

IP and e-mail alarms and notifications

igement functions (fan speed, temperature, voltage, redundant power failure, th, raid health, and memory health)

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

orts and power input inectors

ation treatment

uration)

ating

n bridge handles.

ir filters.

2 x USB 3.0

9 x SATA SSD and up to 6 x NVMe SSD

D38999 MIL type connectors

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

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

pending on the configuration)

ach direction, according to MIL-STD-810G Change 1, Method 516.7, Procedure I n each direction, according to MIL-STD-810G Change 1, Method 516.7, Procedure V

on request, with EMI Filter and MIL type connectors)



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