



## XRS 3U-IP SERIES

EXTREME RUGGED SERVERS IP54 RATED

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# **XRS 3U-IP Series** EXTREME RUGGED SERVERS

XRS is a line of extreme rugged servers combining superior robustness with high performance computing technology, designed for applications that require a MIL-grade qualified equipment, suitable for operations in very critical environment.

XRS 3U-IP features a powerful single or dual socket Intel<sup>®</sup> Xeon<sup>®</sup> Platform suitable for the most intense workloads and supporting a generous number of PCIe 3.0 lanes.

The integrated IPMI services support monitoring, control, and management functions sending alarm notifications in case of critical events.

XRS 3U-IP Extreme Rugged Server has an IP54 protection rate and features a 3U milled aluminium chassis designed to provide for superior resistance. The unit is equipped with MIL grade connectors for I/O ports and for power input. XRS can host up to six full size PCIe boards including GPU, FPGA modules and any other powerful PCI Express board. The front panel includes VGA, IPMI LAN, USB 3.0 and USB 2.0 and a removable battery holder. Two 3.5" drive bays can host up to six removable SSDs.

XRS 3U-IP 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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High Performance Dual Xeon® Architecture

IPMI Based Management

Extreme Rugged Aluminum Chassis

IP54 Protection Grade

D38999 Circular Connectors and Conformal Coating

MIL Grade Qualifications



## **Technical Specifications**

System	
Processor Module	2nd Gen Intel® Xeon® Scalable Process supported, CPU TDP support up to 140W
Memory	Up to 2TB 3DS ECC RDIMM, DDR4-2933
Chipset	Intel <sup>®</sup> C621
LAN	2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
Serial	1x COM Port (1 header)
USB	4x USB 2.0 ports (2 rear + 2 via headers) 3x USB 3.2 Gen1 ports (2 via headers + 1
Storage	10 SATA3 (6Gbps) port
TPM	TPM header
I/O Expansion	2x PCIe 3.0 x16, 3x PCIe 3.0 x8, 1x PCIe 3 M.2 Interface: 1 SATA/PCIe 3.0 x4, Form
Software	Windows <sup>®</sup> 10 IoT Enterprise 2016, Windo
IPMI	IPMI2.0, SPM, Watchdog; SNMP and e-n
Remote Monitoring	Monitoring, control and management consumption, disk health, raid health, an

#### Power Section

Power Input AC or DC input single power su

#### **Mechanical Features**

Dimensions (W x D x H)	Width 483mm Depth 530mm overall Height 132mm - 3U rack
Material	Aluminum with surface passivation treat
Weight	19,5 Kg (depending on configuration)
Color	Black / other on request
Mounting	3U 19" rackmount chassis with bridge ha Optional telescopic slides
Front Panel	LEDs for Power ON and SYS Fail Power On Switch Protected by the front panel: 1x VGA, 2x U
Drive Bay	2x 3.5" drive bays hosting up to 6x 2.5" S
Rear Panel	Power Input connector, D38999 MIL type

#### **Environmental Features**

Operating Temperature	Standard: 0°C / +50°C Extended: -20°C / +60°C (depending on c
Storage Temperature	-40°C/+71°C
Humidity	8% to 95% non-condensed (depending or
Fungus	Conformal coating on request
IP Protection	IP54
Shock	Logistical 40G/11ms (3 shocks per axis a Tactical 35G/20ms + 80G/2ms half sine
Vibrations	MIL-STD-810G, Method 514.7
Electromagnetic Compatibility	According to MIL-STD-461E



sors and Intel® Xeon® Scalable Processors, Dual Socket LGA-3647 (Socket P) W TDP

3MHz; DDR4-2933MHz, in 8 DIMM slots

1 Type A)

: 3.0 x4 (in x8 slot) m Factor: 2260, 2280; Key: M-Key

dows® Server 2016, Linux, Vmware

mail alarms and notifications

functions (fan speed, temperature, voltage, redundant power failure, power nd memory health)

AC or DC input single power supply with EMC Filter and MIL D38999 connector

tment

andles

USB 3.0, 2x USB 2.0, IPMI LAN, Removable Battery

SSD

be connectors

configuration)

on the configuration)

and direction) (1 shock per axis and direction)



#### **GOMA ELETTRONICA SpA**

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