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GEN6 XRS EXTREME RUGGED SERVERS

www.gomarugged.com

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XRS is a product 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 environments.

GEN6 XRS series features single or dual socket 2nd Gen Intel® Xeon® Scalable Processors ideal for highly intensive 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 Extreme Rugged Servers are suitable for 19" rack mounting. They have a 4U milled aluminum chassis design to provide superior resistance and are equipped with a MIL grade power input connector. XRS can host up to six full size PCle boards including GPU, FPGA modules and any other powerful PCI Express board. The front panel includes an elapse timer, and a drive bay for up to three removable SSDs.

XRS Extreme Rugged Servers are qualified to meet 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 tested according to the selected MIL specs.

Product Features



High performance dual Xeon® architecture



IPMI based management



Extreme rugged aluminum chassis



Optional D38999 circular connectors



Optional conformal coating



MIL grade qualifications



Technical Specifications

System

| o y o term | |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor Module | 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors, Dual Socket LGA-3647 (Socket P) supported, CPU TDP support up to 140W TDP |
| Memory | Up to 2TB 3DS ECC RDIMM, DDR4-2933MHz; DDR4-2933MHz, in 8 DIMM slots |
| Chipset | Intel® C621 |
| LAN | 2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port |
| Serial | 1x COM ports (1 header) |
| USB | 4x USB 2.0 ports (2 rear + 2 via headers) 3x USB 3.2 Gen1 ports (2 via headers + 1 Type A) |
| Storage | 10 SATA3 (6Gbps) port |
| TPM | TPM Header |
| I/O Expansion | 2x PCle 3.0 x16, 3x PCle 3.0 x8, 1x PCle 3.0 x4 (in x8 slot) M.2 Interface: 1 SATA/PCle 3.0 x4, Form Factor: 2260, 2280; Key: M-Key |
| I/O Shield | 2x USB 2.0, 2x LAN, 1x IPMI, 1x VGA |
| Software | Windows® 10 IoT Enterprise 2016, Windows® Server 2016, Linux, Vmware |
| 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

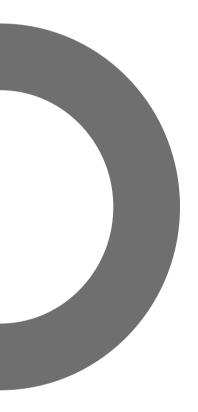
| Dower Input | AC or DC input single power supply with EMC Filter and MIL D38999 connector |
|-------------|-----------------------------------------------------------------------------|
| Power Input | Optional AC or DC input redundant power supply |

Mechanical Features

| Dimensions (W x D x H) | Width 483 mm Height 177.8 mm - 4U rack Depth 546 mm (chassis body) |
|------------------------|----------------------------------------------------------------------------|
| Material | Aluminum with surface passivation treatment |
| Weight | 25 Kg (depending on configuration) |
| Color | Silver / other on request |
| Mounting | 4U 19" rackmount chassis with bridge handles Optional telescopic slides |
| Front Panel | Power ON Switch and led for power fail 2x USB 3.0, Elapsed Time Indicator |
| Drive Bay | 1x 3.5" drive bay hosting up to 3x 2.5" SSD |
| Rear Panel | Power Input connector, fuses, ground; 6x Full size slots |

Environmental Features

| Operating Temperature | Standard: 0°C / +50°C Extended: -20°C / +60°C (depending on configuration) |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Storage Temperature | -40°C/+70°C |
| Humidity | 8% to 95% non-condensed (depending on the configuration) |
| Fungus | Conformal coating on request |
| IP Protection | On request |
| Shock | 35g /25 ms according to MIL-STD-810G w/Change1 |
| Vibrations | 1.25 mm over frequency 4–14 Hz 2 g over frequency 14–50 Hz 0.3 g over frequency 50–500 Hz According to MIL-STD-810G w/Change1 |
| Electromagnetic Compatibility | According to MIL-STD-461F |
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