



GEN5 XRS

EXTREME RUGGED SERVERS

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GEN5 XRS EXTREME RUGGED SERVERS

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.

GEN5 XRS series features single or dual socket Intel® Xeon® Processors E5-2600 v4 (Broadwell) ideal for handling 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 PCIe 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



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High performance dual Xeon® architecture

IPMI based management

Extreme rugged aluminum chassis

Optional D38999 circular connectors

Optional conformal coating

MIL grade qualifications

Technical Specifications

| Processor Module | Intel® Xeon® processor E5-2600 Dual Socket R3 (LGA 2011) sup |
|-------------------|----------------------------------------------------------------------|
| Memory | Up to 1TB Registered ECC RDIN |
| Chipset | Intel [®] C612 |
| LAN | 2x RJ45 Gigabit Ethernet LAN p 1x RJ45 Dedicated IPMI LAN po |
| Serial | 2x COM ports (1 x rear + 1 x hea |
| USB | 6x USB 2.0 ports (2 rear + 4 hea 5x USB 3.0 ports (2 rear + 2 hea |
| Storage | 10 SATA3 (6Gbps) port |
| TPM | TPM Header |
| I/O Expansion | 3x PCle 3.0 x16, 3x PCle 3.0 x8 |
| I/O Shield | 1x COM, 2x USB 3.0, 2x USB 2.0 |
| Software | Windows [®] 10 IoT Enterprise 20 |
| IPMI | IPMI2.0, SPM, Watchdog; SNMF |
| Remote Monitoring | Monitoring, control and manage power consumption, disk health |

Power Section

| Power Input | AC or DC input single power su |
|-------------|--------------------------------|
| | Optional AC or DC input redund |

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 passivat |
| Weight | 25 Kg (depending on configuration |
| Color | Silver / other on request |
| Mounting | 4U 19" rackmount chassis with b Optional telescopic slides |
| Front Panel | Power ON Switch and led for pow 2x USB 3.0, Elapsed Time Indicat |
| Drive Bay | 1x 3.5" drive bay hosting up to 3x |
| Rear Panel | Power Input connector, fuses, gr |
| | |

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



00 v3, Intel® Xeon® processor E5-2600 v4 pported, CPU TDP support up to 145W MM, DDR4-2133MHz; Up to 2TB 3DS ECC LRDIMM, in 16 DIMM slots

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0, 2x LAN, 1x IPMI, 1x VGA 016, Windows® Server 2016, Linux, Vmware IP and e-mail alarms and notifications agement functions (fan speed, temperature, voltage, redundant power failure, th, raid health, and memory health)

upply with EMC Filter and MIL D38999 connector dant power supply

ation treatment on)

n bridge handles

ower fail ator

3x 2.5" SSD

ground; 6x Full size slots

nding on configuration)

pending on the configuration)

STD-810G w/Change1

Ηz

z //Change1



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