



Military Rugged RX12 Series 3U Rackmount Server



Dual Socket LGA 2011 R3 support Intel Xeon processor E5-2600 v3 series
Supports DDR4 2133/1866/1600 LR DIMM, Registered, ECC DIMM and NV DIMM, 8 x DIMM
Supports 10 x SATA3 6.0 Gb/s by INTEL C612, 2 x miniSAS HD connectors by LSI3008
Supports 2 PCIe3.0x 16, 1 PCIe 3.0 x8
Integrated IPMI 2.0 and KVM with Dedicated LAN
Support 2x 10GLAN by Intel X540
Shock&Vibration: MIL-STD-810G Compliant
EMC : MIL-STD-461F Compliant
MIL-DTL-38999 Type Connectors

Spill-proof bezel with Lock
1.6mm SGCC heavy-duty cold-rolled steel
Anti-vibration drive cage design
Removable air filter
Front access USB 2.0 x2
Redundant power supply compatible
Built-in 3x 3.5"/2.5" HDD/SSD hotswap



Specifications

MB Physical Status

Form Factor - ATX

Processor System

CPU -Single Intel® Xeon® Processor E5-2648L v3 12x Core ,TDP 75W
(Support Dual CPU mount)

Socket - Dual Socket LGA 2011 R3

Chipset - Intel® C612

System Memory

Capacity DDR4-2133MHz 16GB ECC/REG CL15 Server Memory

Type - Quad Channel memory technology,
- 8 DIMM slots (support NVDIMM)
- Support DDR4 2133/1866/1600 RDIMM and LRDIMM

DIMM Size Support - RDIMM: 32GB, 16GB, 8GB, 4GB
- LRDIMM: 64GB, 32GB

Voltage - 1.2V

Expansion Slot

PCIe 3.0 x 16 - 2 slot

PCIe 3.0 x 8 - 1 slot

Storage

SATA Controller - Intel® C612 : 6 x SATA3 6.0Gb/s; 4 x sSATA3 6.0Gb/s; support RAID 0, 1, 5, 10

Additional Storage Controller - LSI3008 support 8 x SAS3 12Gbps by mini SAS HD connector

Ethernet

Interface - 10000/1000 /100 Mbps by Intel® X540

LAN Controller - 2 x 10GLAN by IntelX540 (10000/1000 /100 Mbps)
- 1 x Dedicated IPMI LAN port
- Supports Wake-On-LAN
- Supports Energy Efficient Ethernet 802.3az
- Supports Dual LAN with Teaming function
- Supports PXE
- LAN1 Supports NCSI

Management

BMC Controller - ASPEED AST2400

IPMI Dedicated LAN - 1 x Realtek RTL8211E for dedicated management GLAN

Features - Watch Dog
- NMI

Graphics

Controller - ASPEED AST2400
- DDR3 16MB

Rear Panel I/O (MIL-DTL-38999 Type Connectors)

VGA Port - 1 x VGA

USB 2.0 Port - 2x Port USB 2.0 (Option to 4 USB ports)

USB 3.0 Port - 2 x USB 3.0 (Optional)

Lan Port - 2 + 1 (IPMI) LAN ports

Serial Port - 2 (COM RS232)

Storage

Capacity - Support up to 3 x 2.5" Rugged 2TB SSD Drives (6TB capacity in systems)

Hotswap bay support -3x 2.5" SSD Hotswap Anti-vibration drive cage)

Optical Drive	
Optical Drive	-Optional Super-Multi DVD±RW Drive (Optional Blu-rayDrive)
Power Supply	
P.S.	700W Power Supply AC 110~230V ±10% Input, 50/60Hz ± 3Hz (Option to DC Power Supply)
Dimensions	
(WxHxD)	19.00" x 5.20" x 21.00" 482.6 mm x 132.1 mm x 533.4 mm
Housing Material	1.6mm SGCC heavy-duty cold-rolled steel
Weight	18kg
Cooling	-2x 80mm Air cooling Low Noise Vent in front
System BIOS	
BIOS Type	- 128Mb AMI UEFI Legal BIOS
BIOS Features	- Plug and Play (PnP) - ACPI 2.0 Compliance Wake Up Events - SMBIOS 2.8 Support
Hardware Monitor	
Temperature	- CPU Temperature Sensing - System Temperature Sensing
Fan	- CPU/Rear/Front Fan Tachometer - CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature) - CPU/Rear/Front Fan Multi-Speed Control
Voltage	- Voltage Monitoring: +12V, +5V, +3.3V, CPU Vcore, DRAM, 1.05V_PCH, +BAT, 3VSB, 5VSB
Support OS	
OS	Microsot Windows® - Server 2008 R2 SP1 (64 bit) - Server 2012 (64 bit) - Server 2012 R2 (64 bit) Linux - RedHat Enterprise Linux Server 5.10/6.5 (32 / 64 bit) - CentOS 5.10 / 6.5 (32 / 64 bit) - SUSE Enterprise Linux Server 11 SP3 (32 / 64 bit) - FreeBSD 9.2 (32 / 64 bit) - Fedora core 19 (64 bit) - Ubuntu 12.04.2 (64 bit) / 12.10 (64 bit) Virtual - VMWare® ESXi 5.5
Environment	
Temperature	- Operation temperature: -15°C ~ 55°C / Non operation temperature: -30°C ~ 70°C
Humidity	- 5 to 95% non-condensing
Dust & Water Proof	IP43 enclosure, anti-bacteria, -salt, -fog and -chemical acid surface
Vibration	Compliant with MIL-STD-810G
Shock	20G, 11ms duration/3Axis
EMC	Compliant with MIL-STD-461E
MTBF	Compliant with MIL-HDBK-217
Noise	<45dB measured in 1 meter @ 35C

