



LAND



SEA



AIR

ROC254A

MIL-STD-810 19" 1U SHORT DEPTH
FANLESS XEON SERVER



- MIL-STD 810 Compliance
- Short Depth 380mm
- Intel® Xeon® D-1541 Processor
- Up to 128GB Registered ECC RDIMM DDR4-2400MHz
- 2 x Gigabit Ethernet, 1 x IPMI
- 1 x VGA , 6 x USB Ports
- 1 x PCIe 3.0 x16 Expansion Slot
- Extended Temperature -20 to 60 °C

Revision History

Reversion	Date	Description
Version1.0	2022/02/17	Initial release
Version2.0	2023/9/19	Update Expansion spec with M.2 PCIe3.0 x4 slot

Specifications

SYSTEM

High Performance Processor	Intel® Xeon® Processor D-1541 (Frequency 2.1GHz, Turbo Boost Frequency up to 2.7GHz)8-Core,16 Thread Support, 12MB Smart Cache Build-in Turbo Boost Technology 2.0, VPro and Hyper-Threading support
Memory type	Up to 128GB ECC RDIMM DDR4-2400MHz
Chipset	System on Chip
Expansion Slot	1x PCI-E 3.0 x16 1x M.2 PCIe 3.0 x4 slot, M.Key for 2242/2280 SSD, SATA III support

DISPLAY

VGA	Resolution up to 1920×1200@60Hz
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STORAGE

Storage Device	2x 2.5" Solid State Disk (SSD) 64 / 128 / 256 / 512GB /1TB / 2TB Innodisk 3MG2-P Series MLC SATA III 6Gb/s Flash SSD, Rated for 520 MB/sec Sequential Read ; 350 MB/sec Write Max
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ETHERNET

Ethernet	1x Intel I350-AM2 Gigabit Ethernet LAN Interfaces (10/100/1000Mbps)
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FRONT I/O

Button	1x Power Button w/Indicator LED
Indicator LED	1x HDD LED
USB Port	2x USB2.0 standard-A connectors
SSD Tray	2x 2.5 SSD Easy Swap Tray

REAR I/O

Ethernet	2x RJ45 Gigabit Ethernet LAN Interfaces, 1x IPMI LAN Interface
VGA Port	1x DB15 connector
USB Port	2x USB3.0 standard-A connectors, 2x USB2.0 standard-A connectors
AC-IN	1x IEC C14 Plug

POWER REQUIREMENT

Power Input 90V to 264V AC-in, 200W max

APPLICATIONS, OPERATING

Applications Commercial and Military Platforms Requiring Compliance to MIL-STD-810G Embedded Computing, Process Control, Intelligent Automation and manufacturing applications where Harsh Temperature, Shock, Vibration, Altitude, Dust and EMI Conditions.
Used in all aspects of the military

Operating System Windows 10 64Bit, Windows Server 2008 R2, Windows Server 2012 R2
Ubuntu14.04, Fedora 20/23, RedHat Linux EL 7.1/7.2, Vmware ESXi 6.0, ESXi 6.5

PHYSICAL

Dimension (W x D x H) 430 x 380 x 44.6mm

Weight 5.75kg(12.68lbs)

Chassis SECC

Finish Anodic aluminum oxide (Black)

Cooling Natural Passive Convection/Conduction. No Moving Parts

Ingress Protection Dust Proof (Similar to IP50)

ENVIRONMENTAL

MIL-STD-810G Method 507.5, Procedure II (Temperature & Humidity)
Test Method 516.6 Shock-Procedure V Non-Operating (Mechanical Shock)
Method 516.6 Shock-Procedure I Operating (Mechanical Shock)
Method 514.6 Vibration Category 24/Non-Operating (Category 20 & 24, Vibration)
Method 514.6 Vibration Category 20/Operating (Category 20 & 24, Vibration)
Method 501.5, Procedure I (Storage/High Temperature)
Method 501.5, Procedure II (Operation/High Temperature)
Method 502.5, Procedure I (Storage/Low Temperature)
Method 502.5, Procedure II (Operation/Low Temperature)
Method 503.5, Procedure I (Temperature shock)

Operating Temperature -10 to 60°C (ambient with 0.7m/s airflow)

Storage Temperature -40 to 85°C

Ordering Information

ROC254A

MIL-STD-810G 19" 1U Short Depth Fanless Server with Intel® Xeon® D-1541 Processor, 1 x VGA, 1 x IPMI ,
2 x Gigabit Ethernet, 6 x USB Port

Dimension

