



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

# 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<br>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             | 1 x PCI-E 3.0 x16                                                                                                                                                                                       |

## DISPLAY

|     |                                 |
|-----|---------------------------------|
| VGA | Resolution up to 1920x1200@60Hz |
|-----|---------------------------------|

## STORAGE

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

## ETHERNET

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

## FRONT I/O

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

## REAR I/O

|          |                                                                   |
|----------|-------------------------------------------------------------------|
| Ethernet | 2 x RJ45 Gigabit Ethernet LAN Interfaces 1 x IPMI LAN Interface   |
| VGA Port | 1 x DB15 connector                                                |
| USB Port | 2 x USB3.0 standard-A connectors 2 x USB2.0 standard-A connectors |
| AC-IN    | 1 x 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.<br>Used in all aspects of the military |
| Operating System | Windows 10 64Bit, Windows Server 2008 R2, Windows Server 2012 R2<br>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 Test     | Method 507.5, Procedure II (Temperature & Humidity)<br>Method 516.6 Shock-Procedure V Non-Operating (Mechanical Shock)<br>Method 516.6 Shock-Procedure I Operating (Mechanical Shock)<br>Method 514.6 Vibration Category 24/Non-Operating (Category 20 & 24, Vibration)<br>Method 514.6 Vibration Category 20/Operating (Category 20 & 24, Vibration)<br>Method 501.5, Procedure I (Storage/High Temperature)<br>Method 501.5, Procedure II (Operation/High Temperature)<br>Method 502.5, Procedure I (Storage/Low Temperature)<br>Method 502.5, Procedure II (Operation/Low Temperature)<br>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| EMC                   | CE and FCC compliance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## 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

