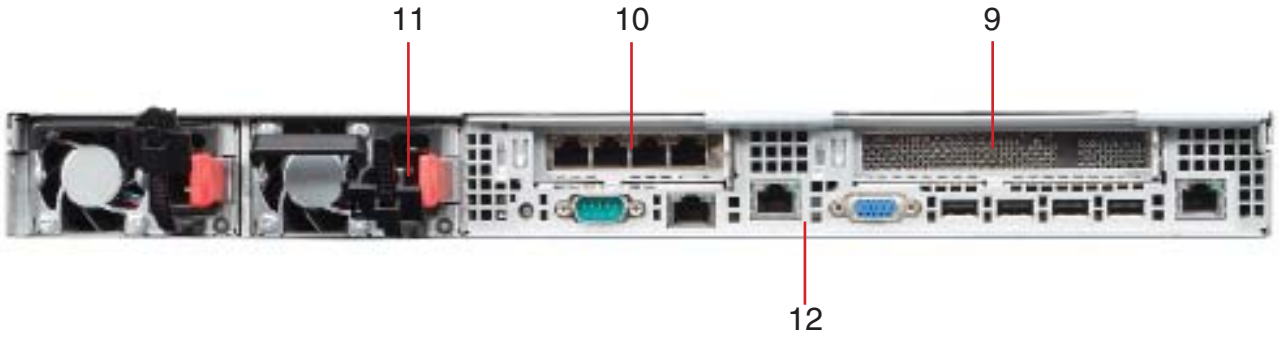
ThinkServer RD540 Overview - Front and Rear



ThinkServer RD540 with 4x3.5" Disk Drive Bays



ThinkServer RD540 with 8x2.5" Disk Drive Bays



Front View

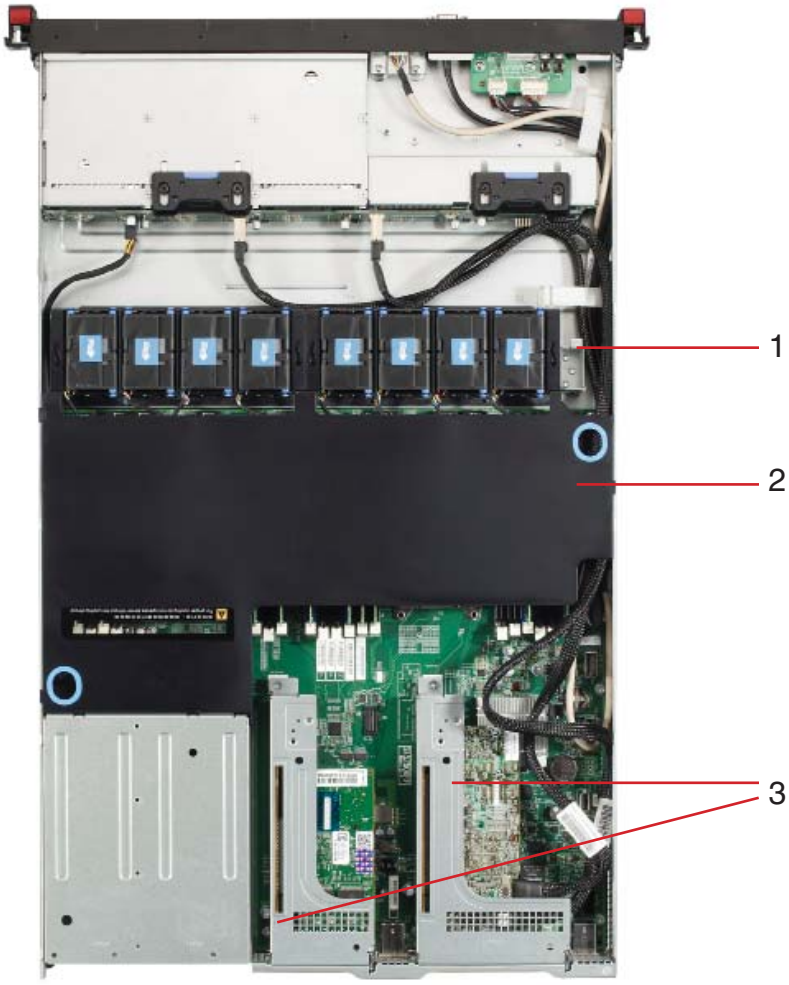
1. Hot-swap disk drive bays
2. Power Button with LED
3. ID button with LED
4. 2 Network interface status LEDs
5. 2 USB 2.0
6. Intelligent Diagnostics Module (optional)
7. Optical (optional, for 3.5" disk drive bay model)
8. VGA (for 2.5" disk drive bay model)

Rear View

9. PCI Express slots 1*
10. PCI Express slots 2*
11. Hot-swap power supplies
12. Rear ports:
    4 USB 2.0
    1 serial
    2 ethernet
    1 RJ-45 (dedicate/share mgmt)
    1 VGA

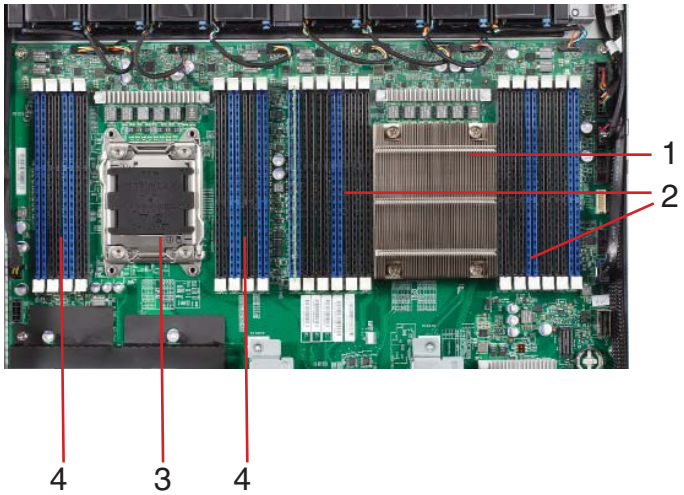
*Adapters are optional

ThinkServer RD540 Overview - Internal



Internal View

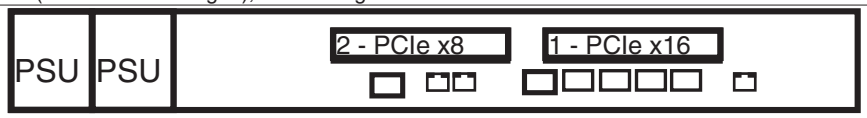
1. Non-hot swap cooling fans
2. Processors and memory DIMM sockets (under cooling shroud, see below)
3. PCI Express slots (*Adapters are optional)



Processors and Memory DIMM Sockets (under cooling shroud)

1. CPU 1
2. 12 Memory DIMM sockets for CPU 1
3. CPU 2 (optional)
4. 8 Memory DIMM sockets for CPU 2 (for dual processors model)

ThinkServer RD540 Platform Specifications

<table>
<tr><th>Components</th><th colspan="2">Specifications</th></tr>
<tr><td>Chipset</td><td colspan="2">Intel C602J Chipset</td></tr>
<tr><td>Mechanical</td><td colspan="2">• 1U rack
• 19"W x 28.9"D x 1.72"H (with rack handles)
• 482.4mm W x 734mm D x 43.6mm H (with rack handles)
• 17kg (37.5 lb) when fully configured</td></tr>
<tr><td>Front ports</td><td colspan="2">Two USB 2.0, one analog VGA DB-15 connector (for 8x2.5" disk bays models)</td></tr>
<tr><td>Rear ports</td><td colspan="2">Four USB 2.0, one serial (9-pin), two ethernet (RJ-45),
one RJ-45 (dedicate/share mgmt), one analog VGA DB-15 connector</td></tr>
<tr><td>Expansion Slots</td><td colspan="2">

Two PCI-Express slots via two riser cards, riser card 1 for slot 1, riser card 2 for slot 2
Slot 1: half-length, full-height, PCI Express 3.0 x16
Slot 2: Low Profile, PCI Express 3.0 x8</td></tr>
<tr><td>Graphics</td><td colspan="2">Onboard Aspeed AST2300 graphics/management processor, one VGA DB-15 on front (for 8x2.5" disk bays models),
one VGA DB-15 on rear; Maximum resolution: 1920x1200@60Hz</td></tr>
<tr><td>Hot-swap parts</td><td colspan="2">Disk drives, power supplies</td></tr>
<tr><td rowspan="11">Safety, environment, and certifications</td><td>Environmental certifications</td><td>• Energy Star Server 2.0 qualified
• RoHS-compliant</td></tr>
<tr><td>EMC</td><td>FCC Class A, CSA CE</td></tr>
<tr><td>240VA</td><td>Supports</td></tr>
<tr><td>Temperature - operating</td><td>50 °F to 95 °F (10 °C to 35 °C)</td></tr>
<tr><td>Temperature - non operating (no package)</td><td>-10 °C to 60 °C</td></tr>
<tr><td>Temperature - non operating (with package)</td><td>-40 °C to 70 °C</td></tr>
<tr><td>Altitude - operating</td><td>Supported Altitude (unpressurized): 0-10000ft (0-3048m)</td></tr>
<tr><td>Humidity - operating</td><td>8%~80%, non-condensing</td></tr>
<tr><td>Humidity - non operating (no package)</td><td>8%~80%, non-condensing</td></tr>
<tr><td>Humidity - non operating (with package)</td><td>8%~90%, non-condensing</td></tr>
<tr><td>Acoustic noise (idle/working mode)</td><td>
<table>
<tr><th>Category</th><th>Normal Configuration</th><th>High Performance Configuration</th></tr>
<tr><td>CPU</td><td>1</td><td>2</td></tr>
<tr><td>HDD</td><td>2x 900GB 2.5" SAS 6Gb/s</td><td>8x 900GB 2.5" SAS 6Gb/s</td></tr>
<tr><td>Memory</td><td>1x 8GB 1600MHz LVRDIMM</td><td>20x 8GB 1600MHz LVRDIMM</td></tr>
<tr><td>PCIe adapters</td><td>I350</td><td>I350</td></tr>
<tr><td>PSU</td><td>1x 800W</td><td>2x 800W</td></tr>
<tr><td>RAID</td><td>RAID 700 adapter</td><td>RAID 700 adapter</td></tr>
<tr><td>Sound Pressure (operating)</td><td>38.6 dB(A)</td><td>38.7 dB(A)</td></tr>
<tr><td>Sound Pressure (idle)</td><td>39.0 dB(A)</td><td>40.0 dB(A)</td></tr>
</table>
</td></tr>
</table>

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