DD series is the ultimate protection storage appliance that is the next generation of Dell EMC Data Domain appliances.

DD series delivers a fast, secure and an efficient solution that is optimized for multi-cloud data protection and future demands.

DD series consists of the DD9900, DD9400, DD6900, DD3300 and a software-defined appliance with PowerProtect DD Virtual Edition (DDVE).

<table>
<thead>
<tr>
<th></th>
<th>DD3300</th>
<th>DD6900</th>
<th>DD9400</th>
<th>DD9900</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Max Throughput</strong></td>
<td>Up to 4.2 TB/hr</td>
<td>Up to 15 TB/hr</td>
<td>Up to 26 TB/hr</td>
<td>Up to 41 TB/hr</td>
</tr>
<tr>
<td><strong>Max Throughput</strong></td>
<td>Up to 7.0 TB/hr</td>
<td>Up to 33 TB/hr</td>
<td>Up to 57 TB/hr</td>
<td>Up to 94 TB/hr</td>
</tr>
<tr>
<td><strong>Logical Capacity</strong></td>
<td>Up to 1.6PB</td>
<td>Up to 18.7PB</td>
<td>Up to 49.9PB</td>
<td>Up to 97.5PB</td>
</tr>
<tr>
<td><strong>Logical Capacity</strong></td>
<td>Up to 4.8PB</td>
<td>Up to 56.1PB</td>
<td>Up to 149.8PB</td>
<td>Up to 228PB</td>
</tr>
<tr>
<td><strong>Usable Capacity</strong></td>
<td>4TB – 32TB</td>
<td>24TB – 288TB</td>
<td>192TB – 768TB</td>
<td>576TB – 1.5PB</td>
</tr>
<tr>
<td><strong>Usable Capacity</strong></td>
<td>Up to 96TB</td>
<td>Up to 864TB</td>
<td>Up to 2.3PB</td>
<td>Up to 3.5PB</td>
</tr>
<tr>
<td><strong>ES40 Shelf</strong></td>
<td>N/A</td>
<td>4TB 7.2K SAS</td>
<td>8TB 7.2K SAS³</td>
<td>8TB 7.2K SAS³</td>
</tr>
<tr>
<td><strong>DS60 Shelf</strong></td>
<td>N/A</td>
<td>4TB 7.2K SAS³</td>
<td>8TB 7.2K SAS</td>
<td>8TB 7.2K SAS</td>
</tr>
<tr>
<td><strong>FS25 Shelf</strong></td>
<td>N/A</td>
<td>3.8TB SSD²</td>
<td>3.8TB SSD²</td>
<td>3.8TB SSD²</td>
</tr>
</tbody>
</table>

1Logical capacity based on up to 50x deduplication (DD3300) and up to 65x deduplication (DD6900, DD9400, DD9900) based on additional hardware-assisted data compression of up to 30% better than previous generation. Actual capacity & throughput depends on application workload, deduplication, and other settings.

2High Availability configuration only, in a standard configuration SSDs are in the controller. The following systems support a high availability active/standby configuration: DD9900, DD9400 and DD6900

3Supported but not for factory racked orders
## Built-In Networking

<table>
<thead>
<tr>
<th></th>
<th>DD3300</th>
<th>DD6900</th>
<th>DD9400</th>
<th>DD9900</th>
</tr>
</thead>
<tbody>
<tr>
<td>1x Mgmt. port</td>
<td>1x Mgmt. port</td>
<td>1x Mgmt. port</td>
<td>1x Mgmt. port</td>
<td></td>
</tr>
<tr>
<td>4x 10G Base-T</td>
<td>4x 10G Base-T or 4x 10G SFP+</td>
<td>4x 10G Base-T or 4x 10G SFP+</td>
<td>4x 10G Base-T or 4x 10G SFP+</td>
<td></td>
</tr>
</tbody>
</table>

## Optional Networking with I/O Cards

<table>
<thead>
<tr>
<th>I/O Cards Details</th>
<th>DD3300</th>
<th>DD6900</th>
<th>DD9400</th>
<th>DD9900</th>
</tr>
</thead>
<tbody>
<tr>
<td>The 10GBase-T card can auto-negotiate down to support 1GbE</td>
<td>Up to four quad port 10G Base-T, which can auto-negotiate down to support 1GbE</td>
<td>Up to four quad port 10G Base-T, which can auto-negotiate down to support 1GbE</td>
<td>Up to four quad port 10G Base-T (including built-in), which can auto-negotiate down to support 1GbE</td>
<td></td>
</tr>
<tr>
<td>Up to single dual-port 10GbE SLICs: Optical</td>
<td>Up to four quad port 10G SFP+ (including built-in)</td>
<td>Up to four quad port 10G SFP+ (including built-in)</td>
<td>Up to four quad port 10G SFP+</td>
<td></td>
</tr>
<tr>
<td>Single quad-port 16Gbps FC HBA</td>
<td>Up to three dual port 25G SFP+</td>
<td>Up to three dual port 25G SFP+</td>
<td>Up to four dual port 25G SFP+</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Up to 3 quad port 16Gb FC HBA</td>
<td>Up to 3 quad port 16Gb FC HBA</td>
<td>Up to four dual port 100G</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Specifications

<table>
<thead>
<tr>
<th>DD3300</th>
<th>DD6900</th>
<th>DD9400</th>
<th>DD9900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (Lbs)</td>
<td>16 HDDs: 73 lbs</td>
<td>6 SSDs: 73 lbs</td>
<td>9 SSDs: 73 lbs</td>
</tr>
<tr>
<td>Dimensions</td>
<td>17.1” x 29.6” x 3.5” 2U EIA rack units</td>
<td>17.1” x 29.6” x 3.5” 2U EIA rack units</td>
<td>17.1” x 29.6” x 3.5” 2U EIA rack units</td>
</tr>
<tr>
<td>Power 100-120/200-240v~, 50/60 Hz</td>
<td>16 HDDs: 429 VA</td>
<td>6 SSDs: 364 VA</td>
<td>9 SSDs: 647 VA</td>
</tr>
<tr>
<td>Thermal Rating (Watts)</td>
<td>16HDDs: 425 Watts</td>
<td>6 SSDs: 352 Watts</td>
<td>9 SSDs: 635 Watts</td>
</tr>
<tr>
<td>Thermal Rating (BTU/Hr)</td>
<td>16HDDs: 1450</td>
<td>6 SSDs: 1201 btu/h</td>
<td>9 SSDs: 2167 btu/h</td>
</tr>
<tr>
<td>Operating Temperature/Altitude³</td>
<td>10°C to 35°C, 35°C at 3,117 ft</td>
<td>10°C to 35°C, 35°C at 3,117 ft</td>
<td>10°C to 35°C, 35°C at 3,117 ft</td>
</tr>
<tr>
<td>Non-Operating (Transportation) Temperature</td>
<td>-40°C to +65°C (-40°F to +149°F)</td>
<td>-40°C to +65°C (-40°F to +149°F)</td>
<td>-40°C to +65°C (-40°F to +149°F)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>10% to 80% with 29°C (84.2°F) maximum dew point.</td>
<td>10% to 80% with 29°C (84.2°F) maximum dew point.</td>
<td>10% to 80% with 29°C (84.2°F) maximum dew point.</td>
</tr>
<tr>
<td>Operation Acoustic Noise (Sound Power)</td>
<td>LWAd: 7.8 bels</td>
<td>7.2 bels</td>
<td>7.6 bels</td>
</tr>
<tr>
<td>Operation Acoustic Noise (Sound Pressure)</td>
<td>LpAm: 67 db</td>
<td>52 db</td>
<td>58 db</td>
</tr>
</tbody>
</table>
**Statement of Compliance**

Dell EMC Information Technology Equipment is compliant with all currently applicable regulatory requirements for Electromagnetic Compatibility, Product Safety, and Environmental Regulations where placed on market.

Detailed regulatory information and verification of compliance is available at the Dell Regulatory Compliance website. [http://dell.com/regulatory_compliance](http://dell.com/regulatory_compliance)

**Software**

Software features

Global Compression™, Data Invulnerability Architecture, including inline verification and integrated dual disk parity RAID 6, snapshots, telnet, FTP, SSH, email alerts, scheduled capacity reclamation, Ethernet failover and aggregation, Link Aggregation Control Protocol (LACP), VLAN tagging, IP aliasing, DD Boost, DD Encryption, DD Extended Retention, DD Retention Lock, DD Virtual Tape Library (VTL) (for open systems and IBMi operating environments). Available add-ons include: DD Boost, Cloud Tier for long-term retention, Cloud Disaster Recovery, and DD Replicator.

System management

PowerProtect DD Management Center, DD System Manager, SNMP, and command line management interface.

Data management

NFS v3 over TCP, CIFS and DD Boost over 1GbE or 10GbE or Fibre Channel, tape library emulation (VTL) over Fibre Channel, and NDMP Tape Server.
FS25 SSD shelf

External interface (host/expansion)
Dual 4 lane 12Gb/s serial attached SCSI II (SAS) ports per Link Control Card (LCC)—one for host and one for expansion
Connector type
SFF-8088 connectors (mini-SAS)
SAS cable length
Up to 5 meter
Disk drives
25-drive bays, supports, 2.5-inch form factor
3.84 TB SSD drives
Dimensions
Height: 3.40 in (8.46 cm)
Width: 17.5 in (44.45 cm)
Depth: 13.0 in (33.02 cm)
Weight: 22.0 lbs (10.0 kg)
Operational
Power (VA): 187VA or 136W, (100-240V ~, 47 to 63 Hz)
Thermal Rating: 464 BTU/hr
Environmental
Ambient temperature: 50° F to 95° F (10° C to 35° C)
Temperature gradient: 36° F/hr (20°C/hr)
Relative humidity extremes: 20% to 80% noncondensing
Elevation: -50 to 10000 ft (-16 to 3050 m)
Non-Operating (Transportation) Temperature:
Ambient temperature: -40° F to 149° F (-40° C to 65° F)
Temperature gradient: 36° F/hr (20°C/hr)
Relative humidity: 10% to 90% noncondensing
Elevation: -50 to 35,000 ft (-16 to 10,600 m)

DS60 Expansion shelf

External interface (host/expansion)
Quad 8 lane 12 Gb/s serial attached SCSI II (SAS) ports per Link Control Card (LCC)—Half of each port is blocked allowing the use of standard mini-SAS-HD connectors—one port is used for the host connection and the other is used for expansion.
Connector type
SFF-8088 connectors (mini-SAS)
SAS cable length
Up to 5 meter
Disk drives
60-drive bays per DS60 expansion shelf support low profile, one inch high, 3.5-inch form factor drives
Drive Choices: SAS (12 Gb/s), 4 TB or 8 TB
Dimensions
Height: 8.75 in (22.23 cm) 5U (4U plus 1U cable management tray)
Width including rails: 17.50 in (44.45 cm)
Depth (chassis only): 34.5 in (87.63 cm)
Maximum depth (fully configured): 36.4 in (92.46 cm)
Weight: 225.0 lbs (90.7 kg) (with FRUs installed)
Operational
Power (VA): 785 VA or 770W, (200-240V ~, 47 to 63 Hz)
Thermal Rating: 2627 BTU/hr
Environmental
Ambient temperature: 41° F to 104° F (5° C to 40° C)
Temperature gradient: 18° F/hr (10° C/hr)
Relative humidity extremes: 20% to 80% noncondensing
Elevation: -50 to 10000 ft (-16 to 3050 m)
Non-Operating (Transportation) Temperature:
Ambient temperature: -40° F to 149° F (-40° C to 65° F)
Temperature gradient: 45° F/hr (25°C/hr)
Relative humidity: 10% to 90% noncondensing
Elevation: -50 to 35,000 ft (-16 to 10,600 m)

ES40 Expansion shelf

External interface (host/expansion)
Dual 4 lane 12Gb/s serial attached SCSI II (SAS) ports per Link Control Card (LCC)—one for host and one for expansion
Connector type
SFF-8088 connectors (mini-SAS)
SAS cable length
Up to 5 meter
Disk drives
15-drive bays, supports, 3.5-inch form factor
4 TB 7.2K SAS drives
Dimensions
Height: 5.25 in (13.33 cm)
Width: 17.5 in (44.45 cm)
Depth: 14 in (35.56 cm)
Weight: 68 lbs (30.8 kg)
Operational
Power (VA): 272VA or 232W, (100-240V ~, 47 to 63 Hz)
Thermal Rating: 792 BTU/hr
Environmental
Ambient temperature: 50° F to 95° F (10° C to 35° C)
Temperature gradient: 36° F/hr (20°C/hr)
Relative humidity extremes: 20% to 80% noncondensing
Elevation: -50 to 10000 ft (-16 to 3050 m)
DD series rack

Power configuration
Single phase is standard, optional 3-phase.
Two power domains (base and extended), each redundant.

Power inlet count
Either two or four (Single Phase DD9900 HA with 4x DS60 or DD9900/DD9900 HA with 5x DS60)

Plug types
L6-30P, 56PA322, 332P6W, 3750DP, L7-30, 60309, CS-8365C, 9P54U2T, 3P-Wye, or 3P-Wye Flying Leads

PDU Power capacity
single-phase, 24A, 200-240 V~, 50/60 Hz
three-phase 3W+G, 40A, 200-240 V~, 50/60 Hz
three-phase 3W+N+PE, 24A, 200-240 V~, 50/60 Hz

Dimensions
40U available rack capacity
Height: 75 in (190.8 cm)
Width: 24.0 in (61.1 cm)
Depth: 39.0 in (99.2 cm)
Weight: 380 lbs (173 kg) when empty

A 60cmx120cm 42 U rack will be available in Q1 2020