DELL EMC INTEGRATED DATA PROTECTION APPLIANCE (IDPA)

SIMPLY POWERFUL DATA PROTECTION AT A LOWER COST-TO-PROTECT. GUARANTEED.

The IDPA simplifies deployment and management, while delivering powerful, enterprise-class data protection capabilities for mid-size and enterprise organizations at a lower cost-to-protect than competing solutions.

It is a converged solution that offers complete backup, replication, recovery, deduplication, instant access and restore, search & analytics, tight VMware integration—and, cloud readiness with disaster recovery and long-term retention to the cloud—all in a single appliance—for 10X faster deployment.

The IDPA delivers a lower cost-to-protect and is guaranteed under the Future-proof Loyalty program.

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**Specifications**

**Table 1. IDPA Performance and Capacity**

<table>
<thead>
<tr>
<th></th>
<th>DP4400</th>
<th>DP5800</th>
<th>DP8300</th>
<th>DP8800</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MAXIMUM THROUGHPUT</strong>¹</td>
<td>9 TB/hr</td>
<td>32 TB/hr</td>
<td>41 TB/hr</td>
<td>68 TB/hr</td>
</tr>
<tr>
<td><strong>MAXIMUM LOGICAL CAPACITY</strong>¹, ²</td>
<td>4.8 PB</td>
<td>14.4 PB</td>
<td>36 PB</td>
<td>50 PB</td>
</tr>
<tr>
<td><strong>W/ CLOUD TIER</strong></td>
<td>14.4 PB³</td>
<td>43.2 PB</td>
<td>108 PB</td>
<td>150 PB</td>
</tr>
<tr>
<td><strong>MAXIMUM USABLE CAPACITY</strong></td>
<td>24 to 96 TB</td>
<td>96 to 288 TB</td>
<td>192 to 720 TB</td>
<td>624 to 1 PB</td>
</tr>
<tr>
<td><strong>W/ CLOUD TIER</strong></td>
<td>Up to 288 TB³</td>
<td>Up to 864 TB</td>
<td>Up to 2.16 PB</td>
<td>Up to 3 PB</td>
</tr>
<tr>
<td><strong>PROCESSOR</strong></td>
<td>Intel Xeon</td>
<td>Intel Xeon</td>
<td>Intel Xeon</td>
<td>Intel Xeon</td>
</tr>
<tr>
<td><strong>DRIVE TYPE</strong></td>
<td>SAS 12 TB</td>
<td>SAS 4 TB</td>
<td>SAS 4 TB</td>
<td>SAS 4 TB</td>
</tr>
<tr>
<td><strong>BUILT-IN NETWORKING</strong></td>
<td>4x10GbE Optical uplinks (only two req’d)</td>
<td>4x40GbE Customer uplinks; Each Quad SFP port can be split to 4x10GbE uplinks; Only two required</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ Top-end values are maximums – actual capacity & throughput depends on application workload, deduplication, and other settings.
² Mix of typical enterprise backup data (file systems, databases, email, developer files). The low end of capacity range represents a full backup weekly or monthly, incremental backup daily or weekly, to system capacity. The top end of the range represents full backup daily, to system capacity. All capacity values are calculated using Base10 (i.e., 1 TB = 1,000,000,000,000 bytes).
³ Dell EMC internal analysis using publicly available competitive pricing from Rubrik and Cohesity, May 2018. Lowest cost-to-protect is based on $ per logical GB. Actual cost will vary.
⁴ Based on Dell EMC internal testing, May 2018, compared to traditional deployments. Actual results will vary.
Table 2. IDPA Physical specifications and environamentals\(^5\)

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>WEIGHT (LBS)</td>
<td>72.8 lbs.</td>
<td>450 lbs.</td>
<td>734 lbs.</td>
<td>846 lbs.</td>
</tr>
<tr>
<td>DIMENSIONS</td>
<td>17.09 x 28.17 x 3.42 (inches WDH)</td>
<td>40U rack Height: 75 in (190.8 cm); Width: 24.0 in (61.1 cm); Depth: 39.0 in (99.2 cm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>434 x 715.5 x 86.8 (mm WDH)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>POWER 100-120/200-240V~50/60 Hz</td>
<td>475 VA (MAX @ 35 DEGREES C)</td>
<td>1,989 VA</td>
<td>3,117 VA</td>
<td>3,865 VA</td>
</tr>
<tr>
<td>THERMAL RATING (BTU/HR)</td>
<td>1620</td>
<td>5,935</td>
<td>9,479</td>
<td>14,243</td>
</tr>
<tr>
<td>OPERATING TEMPERATURE/ALTITUDE(^4)</td>
<td>10°C to 35°C, 35°C at 7,500 ft.</td>
<td>10°C to 35°C, 35°C at 7,500 ft.</td>
<td>10°C to 35°C, 35°C at 7,500 ft.</td>
<td>10°C to 35°C, 35°C at 7,500 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>
<td>-40°C to +65°C (-40°F to +149°F)</td>
</tr>
<tr>
<td>OPERATING HUMIDITY</td>
<td>10% to 80% relative humidity with 29°C (84.2°F) maximum dew point</td>
<td>20% to 80% non-condensing</td>
<td>20% to 80% non-condensing</td>
<td>20% to 80% non-condensing</td>
</tr>
</tbody>
</table>

\(^5\) Does not include the environmental requirements for capacity shelves. For a specific IDPA capacity configuration, the appropriate capacity for the installed DS60 Expansion shelves must be added to the configuration (see below).

Table 3. IDPA Regulatory approvals\(^6\)

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<tr>
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<tr>
<td>SAFETY</td>
<td>UL 60950-1, CSA 60950-1, EN 60950-1, IEC 60950-1, GS, SABS, GOST, IRAM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EMISSIONS</td>
<td>FCC Class A, EN 55022, CISPR 22, VCCI, BSMI, MIC, ICES-003</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMMUNITY</td>
<td>EN 55024, CISPR 24</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>POWER LINE HARMONICS</td>
<td>EN 61000-3-2</td>
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</tr>
</tbody>
</table>

\(^6\) Derate 1.1°C/1,000 ft. above 7,500 ft. to 10,000 ft.

IDPA Rack

Power configuration

Single phase is standard, optional 3-phase. Four power inlet connections. Two power domains (base and extended), each redundant

Plug types

NEMA L6-30p or IEC 60309 332P6
Power capacity
DP5800/8300/8800: 200-240 V~, single-phase, 47-63 Hz, 4,800 VA (base configuration) 9,600 VA (extended configuration)
DP4400: 100-240 V~ auto-ranging, single-phase, 47-63 Hz, 475 VA

AC protection
30A site circuit breaker on each power domain

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

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. The host controller runs at 6Gb/s to the DS60.

Connector type
SFF-8088 connectors (mini-SAS)

SAS cable length
Up to 5 meters

Disk drives
60-drive bays per DS60 expansion shelf, support low profile, one inch high, 3.5-inch form factor drives
SAS (6 Gb/s), 4 TB, 7200 RPM

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 60 HDD installed)

Operational
Power: 980 VA or 931W (200-240V ~, 47 to 63 Hz)
Thermal Rating: 3177 BTU/hr.

Operating:
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 7500 ft. (-16 to 2300 m)

Non-Operating (Transportation):
Ambient temperature: -40°F to 149°F (-40°C to 65°C)
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)
ES30 EXPANSION SHELF

External interface (host/expansion)
Dual 4 lane 6 Gb/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 per ES30 expansion shelf, support low profile, one inch high, 3.5-inch form factor drives
SAS (6 Gb/s), 3TB, 7200 RPM

Dimensions
Height: 5.25 in (13.34 cm)
Width: 19.0 in (48.3 cm)
Depth: 14.0 in (35.56 cm)
Weight: 68 lbs (30.8 kg)

Operational
Power (VA): 280VA or 235W, (100-240V ~, 47 to 63 Hz)
Thermal Rating: 800 BTU/hr
Operating Temperature:
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 7500 ft (-16 to 2300 m)
Non-Operating (Transportation) Temperature:
Ambient temperature: -40° F to 149° F (-40° C to 65° F)