



DELL EMC INTEGRATED DATA PROTECTION APPLIANCE (IDPA)

SIMPLY POWERFUL DATA PROTECTION AT A LOW COST-TO-PROTECT.³ GUARANTEED.

The IDPA simplifies deployment and management, while delivering powerful, enterprise-class data protection capabilities for mid-size and enterprise organizations at a low cost-to-protect than competing solutions.³

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

The IDPA delivers a low cost-to-protect³ and is guaranteed under the Future-Proof Program.

Specifications

Table 1. IDPA Performance and Capacity

Features	DP4400	DP5800	DP8300	DP8800
MAXIMUM THROUGHPUT¹	Up to 9 TB/hr	Up to 32 TB/hr	Up to 41 TB/hr	Up to 68 TB/hr
MAXIMUM LOGICAL CAPACITY^{1,2}	4.8 PB	14.4 PB	36 PB	50 PB
W/ CLOUD TIER	14.4 PB ²	43.2 PB	108 PB	150 PB
MAXIMUM USABLE CAPACITY	8 to 96 TB ⁴	96 to 288 TB	192 to 720 TB	624 to 1 PB
W/ CLOUD TIER	Up to 288 TB ²	Up to 864 TB	Up to 2.16 PB	Up to 3 PB
PROCESSOR	Intel Xeon	Intel Xeon	Intel Xeon	Intel Xeon
DRIVE TYPE	SAS 4TB or SAS 12 TB	SAS 4 TB	SAS 4 TB	SAS 4 TB
BUILT- IN NETWORKING	8x RJ45 or 8x SFP Optical links (only two req'd) ⁴	4x40GbE Customer uplinks; Each Quad SFP port can be split to 4x10GbE uplinks; Only two required		

Specifications

Table 1 (cont.). IDPA Performance and Capacity

Features	DP4400	DP5800	DP8300	DP8800
WEIGHT (LBS)	72.8 lbs. ⁶	450 lbs.	734 lbs.	846 lbs.
DIMENSIONS	17.09 x 28.17 x 3.42 (inches WDH) 434 x 715.5 x 86.8 (mm WDH)	40U rack Height: 75 in (190.8 cm); Width: 24.0 in (61.1 cm); Depth: 39.0 in (99.2 cm)		
POWER (100-120 / 200-240 V ≈ 50/60HZ)	475 VA (MAX @ 35°C)	1,989 VA	3,117 VA	3,865 VA
THERMAL RATING (BTU/HR)	1620	5,935	9,479	14,243
OPERATING TEMPERATURE / ALTITUDE	10°C to 35°C, 35°C at 7,500 ft.	10°C to 35°C, 35°C at 7,500 ft.	10°C to 35°C, 35°C at 7,500 ft.	10°C to 35°C, 35°C at 7,500 ft.
NON-OPERATING (TRANSPORTATION) TEMPERATURE	-40°C to +65°C (-40°F to +149°F)	-40°C to +65°C (-40°F to +149°F)	-40°C to +65°C (-40°F to +149°F)	-40°C to +65°C (-40°F to +149°F)
OPERATING HUMIDITY	10% to 80% relative humidity with 29°C (84.2°F), maximum dew point	20% to 80% non-condensing	20% to 80% non-condensing	20% to 80% non-condensing

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° 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)

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)



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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 Based on ESG Technical Review commissioned by Dell Technologies, "Efficiently Protect Virtual Environments with Integrated Data Protection Appliances from Dell EMC", January 2020, comparing Dell EMC IDPA DP5800 vs. a leading competitive hyperconverged data protection appliance solution from Vendor X. Actual results may vary. If starting at less than 24TB, hardware upgrade kit is required to bridge from 24TB to larger capacities. The upgrade is expected to take up to 90 minutes to complete.

⁴ RJ45 or SFP retrofit option will provide flexibility for existing DP4400 customers to better accommodate to their lab networking requirements. These network cards are customer installable and configurable.

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).

⁶ Weight is of a fully populated DP4400

⁷ 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. Regulatory information and verification of compliance is available at Dell Regulatory Compliance site. http://dell.com/regulatory_compliance