

DELL EMC INTEGRATED DATA PROTECTION APPLIANCE

Dell EMC Integrated Data Protection Appliance (IDPA) provides comprehensive and converged data protection. The pre-integrated appliance is simple to deploy and scale, and supports a diverse application ecosystem, including support for modern applications like MongoDB, Hadoop, and MySQL.



Integrated Data Protection Appliance

Enjoy faster time to protection with an integrated solution that brings together protection storage, protection software, search, and analytics in a single appliance. Extend data protection seamlessly to private and public clouds with native cloud tiering. Gain business agility with a solution that is fast and modern—your data is protected more efficiently and can be recovered quicker. You'll get the high value you've come to expect from Dell EMC, the number one data protection provider, with industry leading deduplication and overhead free scaling.

Specifications

Table 1. IDPA PERFORMANCE AND CAPACITY

	DP5300	DP5800	DP8300	DP8800
MAXIMUM THROUGHPUT	24 TB/hr.	32 TB/hr.	41 TB/hr.	68 TB/hr.
MAX LOGICAL CAPACITY¹	1.7 to 6.5 PB	7.4 to 14.4 PB	9.6 to 36 PB	31 to 50 PB
W/ CLOUD TIERING	Not Available	14.4 to 43.2 PB	36 to 108 PB	31 to 150 PB
MAX USABLE CAPACITY	34 to 130 TB	144 to 288 TB	192 to 720 TB	624 to 1 PB
W/ CLOUD TIERING	Not Available	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 4 TB	SAS 4 TB	SAS 4 TB	SAS 4 TB
BUILT-IN NETWORKING	6x40GbE Customer uplinks. Each Quad SFP port can be split to 4x10GbE uplinks			

¹ 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).



Table 2. IDPA PHYSICAL SPECIFICATIONS AND ENVIRONMENTALS²

	DP5300	DP5800	DP8300	DP8800
WEIGHT (LBS)	462 lbs.	450 lbs.	734 lbs.	846 lbs.
DIMENSIONS	40U rack Height: 75 in (190.8 cm); Width: 24.0 in (61.1 cm); Depth: 39.0 in (99.2 cm)			
POWER				
100-120/200-240V ~ 50/60 HZ	1,968 VA	1,989 VA	3,117 VA	3,865 VA
THERMAL RATING (BTU/HR)				
	5,833	5,935	9,479	14,243
OPERATING TEMPERATURE/ ALTITUDE³				
	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				
	20% to 80% non-condensing	20% to 80% non-condensing	20% to 80% non-condensing	20% to 80% non-condensing

Table 3. IDPA REGULATORY APPROVALS

	DP5300	DP5800	DP8300	DP8800
SAFETY	UL 60950-1, CSA 60950-1, EN 60950-1, IEC 60950-1, GS, SABS, GOST, IRAM			
EMISSIONS	FCC Class A, EN 55022, CISPR 22, VCCI, BSMI, MIC, ICES-003			
IMMUNITY	EN 55024, CISPR 24			
POWER LINE HARMONICS	EN 61000-3-2			

SOFTWARE

SOFTWARE FEATURES

IDPA features integrated backup application, dynamic analytics with predictive forecasting, and elastic search. All software features are preconfigured for the complete solution.

² 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).

³ Derate 1.1°C/1,000 ft. above 7,500 ft. to 10,000 ft.

SYSTEM MANAGEMENT

IDPA provides streamlined management with intuitive search and advanced analytics that aggregate on premise and cloud data protection environments through a simple interface. Customizable dashboards provide visibility and the ability to drill-down to system-level details. Empower application and line of business users with self-service protection management capabilities.

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

200-240 V~, single-phase, 47-63 Hz 4,800 VA (base configuration) 9,600 VA (extended configuration)

AC PROTECTION

30 A 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

Drives Choices: SAS (6 Gb/s), 3 TB or 4 TB, and 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 (VA): 200-240 V~, 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)

CONTACT US

To learn more, contact your local representative or authorized reseller.



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