

# **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<sup>3</sup> than competing solutions.

It is a converged solution that offers complete backup, replication, recovery, deduplication, instant access and restore, search & analytics, tight VMware integration—plus, cloud readiness with disaster recovery and long-term retention to the cloud—all in a single appliance—for 10X faster deployment<sup>4</sup>.

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

Specifications								
Table 1. IDPA Performance and Capacity								
	DP4400	DP5800	DP8300	DP8800				
MAXIMUM THROUGHPUT <sup>1</sup>	Up to 9 TB/hr	Up to 32 TB/hr	Up to 41 TB/hr	Up to 68 TB/hr				
MAXIMUM LOGICAL CAPACITY <sup>1, 2</sup>	4.8 PB	14.4 PB	36 PB	50 PB				
W/ CLOUD TIER	14.4 PB <sup>3</sup>	43.2 PB	108 PB	150 PB				
MAXIMUM USABLE CAPACITY	8 to 96 TB <sup>5</sup>	96 to 288 TB	192 to 720 TB	624 to 1 PB				
W/ CLOUD TIER	Up to 288 TB <sup>3</sup>	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)	4x40GbE Customer uplinks; Each Quad SFP port can be split to 4x10GbE uplinks; Only two required						

<sup>1</sup> Top-end values are maximums - actual capacity & throughput depends on application workload, deduplication, and other settings.



<sup>2</sup> 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).

<sup>3</sup> Dell EMC internal analysis using publically available competitive pricing from Rubrik and Cohesity, May 2018. Lowest cost-to-protect is based on \$ per logical GB. Actual cost will

<sup>4</sup> Based on Dell EMC internal testing, May 2018, compared to traditional deployments. Actual results will vary. 5 Hardware upgrade kit available 2H FY20 to bridge smaller capacities past 24 TB

<sup>1 |</sup> Dell EMC Integrated Data Protection Appliance

	DP4400	DP5800	DP8300	DP8800	
WEIGHT (LBS)	72.8 lbs. <sup>7</sup>	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					
100-120/200-240V~	475 VA (MAX @ 35 DEGREES C)	1,989 VA	3,117 VA	3,865 VA	
50/60 HZ	,				
THERMAL RATING (BTU/HR)	1620	5,935	9,479	14,243	
OPERATING TEMPERATURE/ ALTITUDE <sup>4</sup>	10°C to 35°C,	10°C to 35°C,	10°C to 35°C,	10°C to 35°C,	
	35°C at 7,500 ft.	35°C at 7,500 ft.	35°C at 7,500 ft.	35°C at 7,500 ft.	
NON-OPERATING	-40°C to +65°C	-40°C to +65°C	-40°C to +65°C	-40°C to +65°C	
(TRANSPORTATIO N) TEMPERATURE	(-40°F to +149°F)	(-40°F to +149°F)	(-40°F to +149°F)	(-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	

<sup>6</sup> 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).
7 Weight is of a fully populated DP4400

Table 3. IDPA Regulatory approvals <sup>8</sup>							
	DP4400	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						

8 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**

 $DP5800/8300/8800:\ 200-240\ V\text{--},\ single-phase,\ 47-63\ Hz,\ 4,800\ VA\ (base\ configuration)\ 9,600\ VA\ (extended\ phase)$ 

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)

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## **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)



Learn more about Dell EMC IDPA



Contact a Dell EMC Expert



<u>Learn more</u> about Future-proof Loyalty Program



