





# DELL EMC POWERPROTECT X400 SPEC SHEET

## Dell EMC's Multi-dimensional Data Management appliance

PowerProtect X400 offers next generation data management, enabling faster IT transformation while assuring that you can easily guard and quickly unlock your data's value. X400 is a multi-dimensional, scaling out with linear performance and capacity increases while also delivering scale-up, grow-in-place capacity expansion. Available in both Hybrid and All Flash options, X400 provides whatever level of performance your application or business demands. With simplicity, agility and flexibility at its core, X400 enables you to protect, manage and recover data at scale. Transform IT faster knowing data is protected and available as a business asset.





## Specifications

### 1. PowerProtect X400 Performance & Capacity with X400F All Flash scale-out cubes

	 1 - X400 1 - X400F	 1 - X400 2 - X400F	 1 - X400 3 - X400F	 1 - X400 4 - X400F
<b>MAX THROUGHPUT</b>	Up to 27 TB / hr	Up to 54 TB / hr	Up to 80 TB / hr	Up to 105 TB / hr
<b>LOGICAL CAPACITY</b>	640 TB – 5.6 PB	1.76 – 11.2 PB	2.88 – 16.8 PB	4.00 – 22.4 PB
<b>MAX USABLE CAPACITY</b>	64 – 112 TB	176 – 224 TB	288 – 336 TB	400 – 448 TB
<b>PROCESSOR</b>	Intel Xeon	Intel Xeon	Intel Xeon	Intel Xeon
<b>BUILT-IN NETWORKING</b>	16 x 10GbE + 4 x 10GbE or 25GbE	16 x 10GbE + 8 x 10GbE or 25GbE	16 x 10GbE + 12 x 10GbE or 25GbE	16 x 10GbE + 16 x 10GbE or 25GbE
<b>INSTANT ACCESS AND RESTORE</b>	33,000 IOPS up to 30 VMs	66,000 IOPS up to 60 VMs	99,000 IOPS up to 90 VMs	136,000 IOPS up to 120 VMs

*1. Top-end values are maximums – actual capacity & throughput depends on application workload, deduplication, and other settings. Logical capacity based on 10x to 50x deduplication.*

## 2. PowerProtect X400 Performance & Capacity with X400H Hybrid scale-out cubes

	 1 - X400 1 - X400H	 1 - X400 2 - X400H	 1 - X400 3 - X400H	 1 - X400 4 - X400H
<b>MAX THROUGHPUT</b>	Up to 9.8 TB / hr	Up to 20 TB / hr	Up to 30 TB / hr	Up to 40 TB / hr
<b>LOGICAL CAPACITY</b>	640 TB – 4.8 PB	1.6 – 9.6 PB	2.56 – 14.4 PB	3.52 – 19.2 PB
<b>MAX USABLE CAPACITY</b>	64 – 96 TB	160 – 192 TB	256 – 288 TB	352 – 384 TB
<b>PROCESSOR</b>	Intel Xeon	Intel Xeon	Intel Xeon	Intel Xeon
<b>BUILT-IN NETWORKING</b>	16 x 10GbE + 4 x 10GbE or 25GbE	16 x 10GbE + 8 x 10GbE or 25GbE	16 x 10GbE + 12 x 10GbE or 25GbE	16 x 10GbE + 16 x 10GbE or 25GbE
<b>INSTANT ACCESS AND RESTORE</b>	10,000 IOPS up to 10 VMs	19,000 IOPS up to 20 VMs	29,000 IOPS up to 30 VMs	39,000 IOPS up to 40 VMs

## 3. PowerProtect X400, X400F & X400H physical specifications and environmentals

	<b>X400 (Platform cube)</b>	<b>X400F (All Flash scale-out cube)</b>	<b>X400H (Hybrid scale-out cube)</b>
<b>WEIGHT (LBS)</b>	96.16 lbs (max.)	72.91 lbs (max.)	72.91 lbs (max.)
<b>DIMENSIONS</b>	17.63" x 3.46" x 31.1" (2U)	17.09" x 3.42" x 28.17" (2U)	17.09" x 3.42" x 28.17" (2U)
<b>POWER</b>	2 x 1600W AC Power Supplies 963 Watts	2 x 1100W AC Power Supplies 667 Watts	2 x 1100W AC Power Supplies 667 Watts
<b>THERMAL RATING (BTU/HR)</b>	3286	2276	2276

2. The base configuration for a PowerProtect X400 appliance comes with an X400 platform cube and either an X400H Hybrid scale-out cube or X400F All Flash scale-out cube for capacity. Up to four scale-out cubes of the same type, either Hybrid or All-Flash, can be added; either Hybrid or All Flash. An X400H Hybrid scale-out cube ships with 64 TB, and can scale-up with two additional 16 TB capacity packs (64 – 96 TB). An X400F All Flash scale-out cube ships with 64 TB, and can scale-up with three additional 16 TB capacity packs (64 – 112 TB).

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

<b>OPERATING TEMPERATURE/ ALTITUDE<sup>3</sup></b>	10°C to 35°C (50°F to 95°F)	10°C to 35°C (50°F to 95°F)	10°C to 35°C (50°F to 95°F)
<b>NON-OPERATING (TRANSPORTATION) TEMPERATURE</b>	-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)
<b>OPERATING HUMIDITY</b>	10% to 80% with 29°C (84.2°F) max dew point	10% to 80% with 29°C (84.2°F) max dew point	10% to 80% with 29°C (84.2°F) max dew point
<b>OPERATION ACOUSTIC NOISE (SOUND POWER)</b>	LWAd: 9.0 bels (35°C) / 7.2 (25°C) LpAm: 75 db (35°C) / 58 (25°C)	LWAd: 8.4 bels (35°C) / 5.2 (25°C) LpAm: 74 db (35°C) / 36 (25°C)	LWAd: 8.4 bels (35°C) / 5.2 (25°C) LpAm: 74 db (35°C) / 36 (25°C)

#### 4. PowerProtect X400 regulatory approvals

	<b>X400</b>
<b>SAFETY</b>	UL 60950-1, CSA 60950-1, EN 60950-1, IEC 60950-1, GS, SABS, EAC
<b>EMISSIONS</b>	FCC Class A, EN 55032, CISPR 32, VCCI, BSMI, KCC, ICES-003
<b>IMMUNITY</b>	EN 55024, CISPR 24
<b>POWER LINE HARMONICS</b>	EN 61000-3-2



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