Dell Express Flash P4800X

Technical Specifications and Information

Notes, cautions, and warnings

ⓘ | **NOTE: A NOTE indicates important information that helps you make better use of your product.**

△ | **CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.**

⚠ | **WARNING: A WARNING indicates a potential for property damage, personal injury, or death.**

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Use these specifications and model-specific information to ensure proper application of your P4800X.

Table 1. P4800X technical specifications

Features	Description
Media type	3D XPoint
Capacities/form factors	375 GB U.2
	375 GB HHHL low profile AIC
	750 GB U.2, qualified, not shipped (QNS)
	750 GB HHHL low profile AIC (QNS)
User-addressable 512-byte sectors	375 GB: 732,585,168
	750 GB: 1,465,149,168
Host bus interface	PCIe Gen 3.0 x4
Device protocol	NVM Express 1.0
Bootable device	Yes, U.2 only, UEFI mode only
Hot-swap support	Yes, U.2 only
I/O operations per second	Random 4KB Read: up to 550k
	Random 4KB Write: up to 550k
	Random 4KB 70/30 mixed R/W: up to 500k
Endurance rating (TBW)	375 GB: 20.5 PB, 30 DWPD
	750 GB: 41.0 PB 30 DWPD
Data retention at end of life	3 months at 40°C
Power	12V 3.3V aux supply rail
	6W idle
	18W active
Operating temperature	0°C to 70°C
Physical dimensions	U.2: 100.45 mm x 70.1 mm x 15.0 mm
	AIC: 68.09 mm x 167.65 mm

Features	Description
Shock	U.2: 1,000 G/0.5 ms, half sine
	AIC: 50 G, 170 in/s, trapezoidal
Vibration, non-operating	U.2: 3.13 GRMS, 5 ~ 800 Hz
	AIC: 3.13 GRMS, 5 ~ 500 Hz

Minimum supported operating systems

ⓘ **NOTE: Supported on all operating systems using the included native drivers**

- Microsoft Windows Server 2016
- Microsoft Windows Server 2019
- VMware ESXi 6.5 U2
- VMware ESXi 6.7 U1
- Red Hat Enterprise Linux 7.6
- SUSE Linux Enterprise Server 15
- Ubuntu 18.04.2

ⓘ **NOTE: Cryptographic erase operations are not supported by Dell management tools for P4800X devices. These drives can be securely erased using the Intel SSD Firmware Update Tool.**

The Intel SSD Firmware Update Tool should only be used for secure erase of Dell Express Flash P4800X devices. Firmware updates for Dell-branded storage devices are available from Dell.com/support.