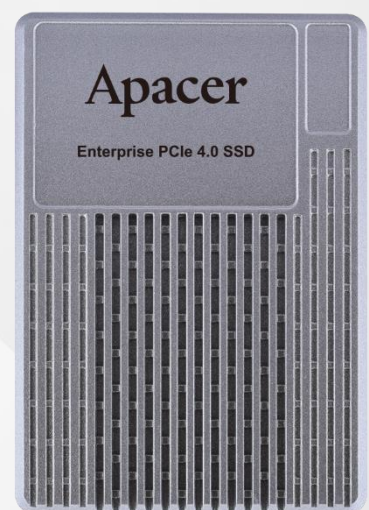


Apacer

The Most **Reliable**
Storage For Industries

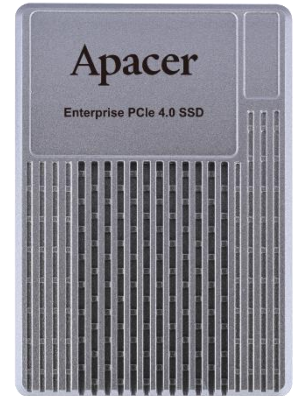
PV19E-25W U.3



PV19E-25W U.3

Overview

Apacer PV19E-25W U.3 Solid State Disk (SSD) delivers all the advantages of flash disk technology with PCIe Gen4 x4 interface, including being fully compliant with standard U.3 form factor, providing low power consumption compared to traditional hard drive and hot-swapping when removing/replacing/upgrading flash disks.



PV19E-25W offers a wide range of capacities up to 25,600 GB and delivers outstanding performance up to 7,460 MB/s (for sequential read) and 7,100 MB/s (for sequential write) based on eTLC NAND flash with the DDR4.

Moreover, the power consumption of U.3 (15mm) SSD is much lower than traditional hard drives, making it the best embedded solution for new platforms.

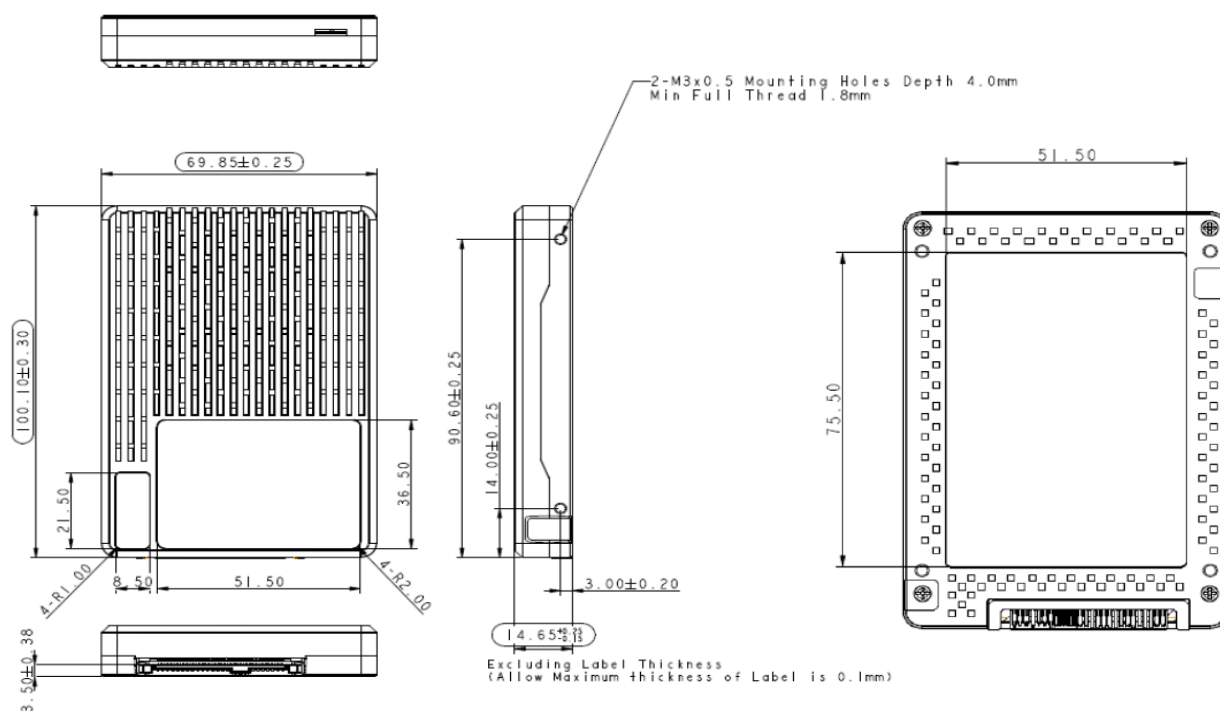
Feature

- Enterprise SSD PV19E-25W
- Corepower
- DWPD>3
- Low-Density Parity-Check (LDPC) Code
- Global Wear Leveling
- Flash bad-block management
- Flash Translation Layer: Page Mapping
- S.M.A.R.T.
- TRIM
- Over-provisioning
- SMART Read Refresh™
- NVMe Secure Erase

Specifications

Model	PV19E-25W
Interface	PCIe Gen4 x4
Connector	U.3 (SFF-TA-1001)
Form Factor	U.3 15mm
NAND Flash Type	3D eTLC
Capacity	1600GB~25600GB
External DRAM	Yes
Sequential Read Performance (MB/sec)	Up to 7000
Sequential Write Performance (MB/sec)	Up to 6800
Sustained Read Performance (MB/sec)	Up to 6600
Sustained Write Performance (MB/sec)	Up to 3800
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	480K
Random R/W latency	90/15 μ s
Random R/W QoS	0.10/0.02 ms
Standard Operating Temperature (°C)	0 ~ + 70
Storage Temperature (°C)	-55 ~ + 100
Thermal sensor	Yes
Shock	Operation: Acceleration, 50(G)/11(ms)/half sine (compliant with MIL-STD-202G) Non-operation: Acceleration, 1,500(G)/0.5(ms)/half sine (compliant with MIL-STD-883K)
Vibration	Operation: 7.69 Grms, 20~2000 Hz/random (compliant with MIL-STD-810G) Non-operation: 4.02 Grms, 15~2000 Hz/random (compliant with MIL-STD-810G)
Operating Voltage	12V \pm 10%
Power Consumption	Active mode: 20.8 W/Idle mode: 7.43 W
Inrush current	1.5A
Dimension (L x W x H)	100.10 x 69.85 x 14.65, unit: mm
MTBF (hours)	>3,000,000

Mechanical Specification



Unit: mm

	Nominal(mm)	Tolerance(mm)
Length	100.1	± 0.30
Width	69.85	± 0.25
Height	14.65	+0.25 / -0.15

For more information,
contact your Apacer representative

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