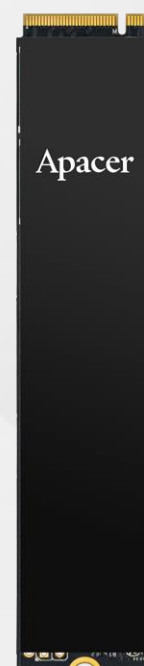


# Apacer

## The Most **Reliable** Storage For Industries

### PV16E-M2110



## PV16E-M2110

### Overview

Apacer PV16E-M2110 is a high-performance and high endurance NVMe SSD designed as the standard M.2 form factor utilizing 112-layer 3D TLC NAND Flash. PV16E-M2110 supports PCIe Gen4 x4 interface and provides full compliance with NVMe 2.0 specifications, allowing the PCIe SSD to operate more effectively than SATA SSDs and greatly save on power consumption. PV16E-M2110 delivers outstanding, stable performance up to 7,155 MB/s for sequential read and 2,295 MB/s for sequential write and ultra-low latency with optimized QoS. PV16E-M2110 also presents better energy efficiency than traditional hard drives, extended endurance of 1 drive writes per day for 5 years and all the advantages of NAND Flash management technologies to ensure data integrity and highest levels of reliability, making it particularly suited for read-intensive, mixed-use workload applications.



PV16E-M2110 features enterprise-class reliability features implemented on both hardware and firmware levels. On the hardware level, PV16E-M2110 is not only built with a powerful PCIe controller that supports on-the-module ECC as well as LDPC (Low Density Parity Check) ECC engine to extend SSD endurance and increase data reliability, but also designed with graphene heat spreader to help keep an SSD cool and functioning correctly, while still allowing the drive to deliver high-speed performance. To increase product reliability and resistance to various thermal and mechanical shocks, PV16E-M2110 also provides Sidefill technology to ensure that products continue to operate normally in high vibration and under extreme environmental changes.

Apacer PV16E-M2110 is an enterprise-class SSD designed for server applications that require consistent performance, low latency and continuous large file transfers for 24/7 uptime and reliability. With superior performance, instant responsiveness, advanced power loss protection technology and highest standard of reliability – whether in terms of data security, data integrity and data protection, Apacer PV16E-M2110 is an ideal solution for enterprise servers, data centers and cloud service providers.

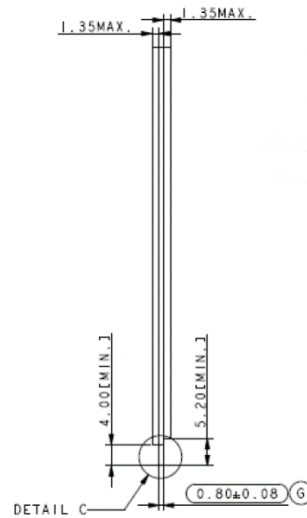
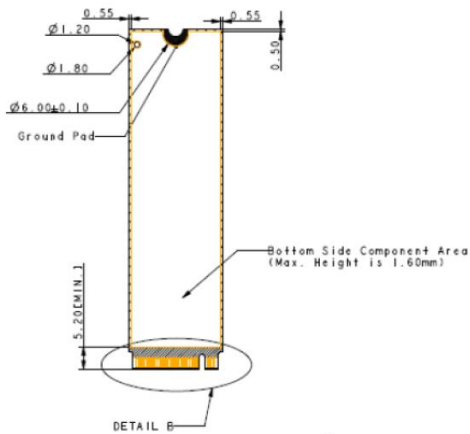
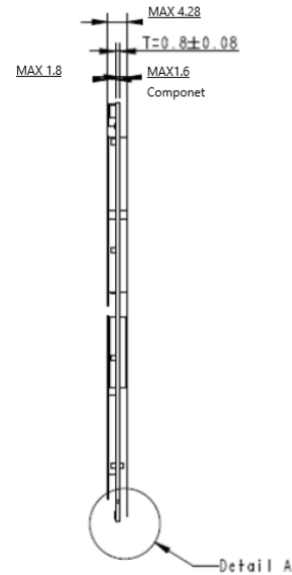
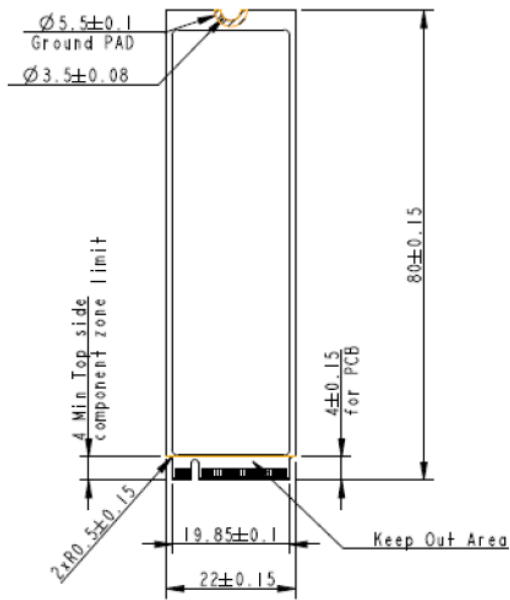
## Feature

- Enterprise SSD PV16E-M280
- CorePower
- QoS 99.9%
- Warrany 5 years
- DWPD>1
- 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
- Namespace

## Specifications

<b>Model</b>	PV16E-M2110
<b>Interface</b>	PCIe Gen4 x4
<b>Connector</b>	M Key
<b>Form Factor</b>	M.2 22110
<b>NAND Flash Type</b>	3D eTLC
<b>Capacity</b>	480GB~3840GB
<b>External DRAM</b>	Yes
<b>Sustained Read Performance (MB/sec)</b>	Up to 7155
<b>Sustained Write Performance (MB/sec)</b>	Up to 2295
<b>ECC Engine</b>	Low-Density Parity-Check (LDPC) Code
<b>IOPS (4K Random Write)</b>	64K
<b>Standard Operating Temperature ( °C )</b>	0 ~ + 70
<b>Storage Temperature ( °C )</b>	-55 ~ 100
<b>Shock</b>	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)
<b>Vibration</b>	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)
<b>Operating Voltage</b>	12V ± 10%
<b>Power Consumption</b>	Active mode: 14.03 W/Idle mode: 3.18 W
<b>Dimension (L x W x H )</b>	19.85 x 110.00 x 4.28 (mm)
<b>MTBF (hours)</b>	>3,000,000

## Mechanical Specification



For more information,  
contact your Apacer representative

### Global Presence

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