



# M.2 2280/2242 NVMe SSD

- ▶ Compliant with NVMe Express 1.3
- ▶ Support Data Security with AES 256 Encryption (Optional)
- ▶ Support SP Toolbox SMART health monitoring software

**NEW**  
Dynamic  
SLC  
Cache



**NEW**  
High  
Sustained  
Write



Model	MEC3K0E	MEC3F0S	MEA3K0E
Flash Technology	3D TLC	3D TLC	3D TLC
Interface	PCIe Gen3x4, NVMe	PCIe Gen3x4, NVMe	PCIe Gen3x4, NVMe
Capacity	64GB ~ 2TB	1TB ~ 4TB	64GB ~ 512GB
Seq. Performance Read (max.)	2,600 MB/s	3,100 MB/s (estimated)	2,000 MB/s (estimated)
Seq. Performance Write (max.)	2,000 MB/s	2,500 MB/s (estimated)	1,500 MB/s (estimated)
Random 4K Read (IOPS max.)	295,000 (estimated)	95,000 (estimated)	220,000 (estimated)
Random 4K Write (IOPS max.)	210,000 (estimated)	70,000 (estimated)	200,000 (estimated)
Power Requirement	DC 3.3V	DC 3.3V	DC 3.3V
Power Consumption (max.)	1500 mA		
Power Consumption (idle)	280 mA		
Dimension (mm)	80.0 x 22.0 x 3.6	80.0 x 22.0 x 3.6	42.0 x 22.0 x 3.6
MTBF (est)	≅ 2,000,000 hrs	≅ 2,000,000 hrs	≅ 2,000,000 hrs
<b>Temperature &amp; Humidity (IEC-60068)</b>			
Operating 0°C ~ 70°C: Standard	SP***GIMEC3K*EV0	SP***GIMEC3F*SV0	SP***GIMEA3K*EV0
Operating -15°C ~ 85°C: Extended			
Operating -40°C ~ 85°C: Wide			
Storage Temperature	-55°C ~ 95°C	-55°C ~ 95°C	-55°C ~ 95°C
Operating Humidity	10% ~ 95% (30°C Max. Wet Bulb Temp)		
<b>Mechanical (IEC-60068)</b>			
Vibration	15G, 10 ~ 2000Hz	15G, 10 ~ 2000Hz	15G, 10 ~ 2000Hz
Drop	75cm	75cm	75cm
Shock	1,500G@0.5ms	1,500G@0.5ms	1,500G@0.5ms
<b>Key Features</b>			
Power Shield	◆	◆	◆
PFP			
End-to-End Data Protection	◆	◆	◆
TRIM	◆	◆	◆
S.M.A.R.T	◆	◆	◆
DEVSLP	◆	◆	◆
AES 256		◆	
SP SMART Utility	◆	◆	◆
Warranty	3 years and within TBW		

\*1. The read and write values may vary depending on different capacities and testing platforms.

\*2. ◆=Default ◇=By Request