

512GB MEM3K0E - Industrial SSD - 3D TLC - M.2 2230 (M Key) - PCIe Gen3x4, NVMe 1.4 - SP512GIMEM3K5EV0



Preis auf Anfrage

<https://www.phs-memory.es>
Version: 09.09.2025 17:31

Your benefits

- ✓ verified quality
- ✓ many years of IT competence
- ✓ high availability
- ✓ free support on our hotline
- ✓ fast delivery

100% quality

- many years of IT competence
- Free support for optimal configuration and product selection
- High availability through professional warehouse management
- Fast delivery in throughout Europe
- Short response times and professional order processing due to full digitalization throughout the entire process with complete traceability
- Incoming goods inspections include checks of the components in order to exclude possible errors already in the incoming goods department (Controlled BOM).
- Products with unique serial number for service and warranty
- Pre-sales and after-sales support by technically trained personnel

Product information

General

Interface	PCIe Gen3x4, NVMe 1.4
Flash Technology	3D TLC
Capacity	512GB
Form Factor	M.2 2230 (M key)
Dimensions	30.0 x 22.0 x 3.5 mm
External DRAM Buffer	No
Manufacturer Part No.	SP512GIMEM3K5EV0

Performance

Seq. Performance Read (max.)	1180 MB/s
Seq. Performance Write (max.)	800 MB/s
Random 4K Read (IOPS max.)	73,000
Random 4K Write (IOPS max.)	150,000
MTBF @ 25 °C	>3,000,000 hrs
P/E Cycle	3,000
TBW	1,233 TB

Operating Environment

Operating Temperature	-20°C~75°C
Storage Temperature	-55°C~95°C
Operating Humidity	10%~95% (30°C Max. Wet Bulb Temp)
Vibration	20G, 10~2000Hz
Drop	75cm
Shock	1,500G@0.5ms

Power Consumption

Power Requirement	DC 3.3V
Power Operation (max.)	1800 mA
Power Idle / Standby	170 mA

Key Features

Advanced Power Shield	Yes
End-to-End Data Protection	Yes
AES-256	Yes
Thermal Throttling	Yes
DEVSLP	Yes
S.M.A.R.T	Yes
DAP	Yes
FWxpress	Yes

EAN	4713436154686
manufacturer	Silicon Power

Other possible options

Product	SKU	Brand	Reference no.
64GB MEM3K0E - Industrial SSD - 3D TLC - M.2 2230 (E Key) - PCIe Gen3x1, NVMe 1.4 - SP064GIMEM3K5EVE	SP596181	Silicon Power	SP064GIMEM3K5EVE
64GB MEM3K0E - Industrial SSD - 3D TLC - M.2 2230 (E Key) - PCIe Gen3x1, NVMe 1.4 - Wide Temp - SP064GIMEM3K5EWE	SP596185	Silicon Power	SP064GIMEM3K5EWE
128GB MEM3K0E - Industrial SSD - 3D TLC - M.2 2230 (M Key) - PCIe Gen3x4, NVMe 1.4 - SP128GIMEM3K5EV0	SP596189	Silicon Power	SP128GIMEM3K5EV0
128GB MEM3K0E - Industrial SSD - 3D TLC - M.2 2230 (E Key) - PCIe Gen3x1, NVMe 1.4 - SP128GIMEM3K5EVE	SP596182	Silicon Power	SP128GIMEM3K5EVE
128GB MEM3K0E - Industrial SSD - 3D TLC - M.2 2230 (E Key) - PCIe Gen3x1, NVMe 1.4 - Wide Temp - SP128GIMEM3K5EWE	SP596186	Silicon Power	SP128GIMEM3K5EWE
256GB MEM3K0E - Industrial SSD - 3D TLC - M.2 2230 (M Key) - PCIe Gen3x4, NVMe 1.4 - SP256GIMEM3K5EV0	SP596190	Silicon Power	SP256GIMEM3K5EV0
256GB MEM3K0E - Industrial SSD - 3D TLC - M.2 2230 (E Key) - PCIe Gen3x1, NVMe 1.4 - SP256GIMEM3K5EVE	SP596183	Silicon Power	SP256GIMEM3K5EVE
256GB MEM3K0E - Industrial SSD - 3D TLC - M.2 2230 (E Key) - PCIe Gen3x1, NVMe 1.4 - Wide Temp - SP256GIMEM3K5EWE	SP596187	Silicon Power	SP256GIMEM3K5EWE
512GB MEM3K0E - Industrial SSD - 3D TLC - M.2 2230 (M Key) - PCIe Gen3x4, NVMe 1.4 - SP512GIMEM3K5EV0	SP596191	Silicon Power	SP512GIMEM3K5EV0
512GB MEM3K0E - Industrial SSD - 3D TLC - M.2 2230 (E Key) - PCIe Gen3x1, NVMe 1.4 - SP512GIMEM3K5EVE	SP596184	Silicon Power	SP512GIMEM3K5EVE
512GB MEM3K0E - Industrial SSD - 3D TLC - M.2 2230 (E Key) - PCIe Gen3x1, NVMe 1.4 - Wide Temp - SP512GIMEM3K5EWE	SP596188	Silicon Power	SP512GIMEM3K5EWE

Contact Information

PHS-electronic gmbh
 - www.phs-memory.es -
 Karl-Götz-Str. 5
 97424 Schweinfurt
 Alemania

Phone: +49 9721 784678
 E-Mail: info@phs-memory.es
 Web: www.phs-memory.es

Product Datasheet | SP596191

512GB MEM3K0E - Industrial SSD - 3D TLC - M.2 2230 (M Key) - PCIe Gen3x4, NVMe 1.4 -
SP512GIMEM3K5EV0



All information without guarantee. Technical changes and errors excepted. You can find current price information in our online shop at <https://www.phs-memory.es>