

256GB MEA3K0E - Industrial SSD - 3D TLC - M.2 2242 (B+M Key) - PCIe Gen3x2, NVMe 1.4 - Wide Temp - SP256GIMEA3K5EWB



Preis auf Anfrage

<https://www.phs-memory.com>

Version: 08.09.2025 06:00

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 Gen3x2, NVMe 1.4
Flash Technology	3D TLC
Capacity	256GB
Form Factor	M.2 2242 (B+M key)
Dimensions	42.0 x 22.0 x 3.5 mm
External DRAM Buffer	No
Manufacturer Part No.	SP256GIMEA3K5EWB

Performance

Seq. Performance Read (max.)	1,785 MB/s
Seq. Performance Write (max.)	1,780 MB/s
Random 4K Read (IOPS max.)	251,000
Random 4K Write (IOPS max.)	281,000
MTBF @ 25 °C	>3,000,000 hrs
P/E Cycle	3,000
TBW	615 TB

Operating Environment

Operating Temperature	-40°C~85°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.)	880 mA
Power Idle / Standby	307mA

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	4713436163398
manufacturer	Silicon Power

Other possible options

Product	SKU	Brand	Reference no.
64GB MEA3K0E - Industrial SSD - 3D TLC - M.2 2242 (B+M Key) - PCIe Gen3x2, NVMe 1.4 - SP064GIMEA3K5EVB	SP596172	Silicon Power	SP064GIMEA3K5EVB
128GB MEA3K0E - Industrial SSD - 3D TLC - M.2 2242 (M Key) - PCIe Gen3x4, NVMe 1.4 - SP128GIMEA3K5EV0	SP595700	Silicon Power	SP128GIMEA3K5EV0
128GB MEA3K0E - Industrial SSD - 3D TLC - M.2 2242 (B+M Key) - PCIe Gen3x2, NVMe 1.4 - SP128GIMEA3K5EVB	SP596173	Silicon Power	SP128GIMEA3K5EVB
128GB MEA3K0E - Industrial SSD - 3D TLC - M.2 2242 (B+M Key) - PCIe Gen3x2, NVMe 1.4 - Wide Temp - SP128GIMEA3K5EWB	SP596174	Silicon Power	SP128GIMEA3K5EWB
256GB MEA3K0E - Industrial SSD - 3D TLC - M.2 2242 (M Key) - PCIe Gen3x4, NVMe 1.4 - SP256GIMEA3K5EV0	SP595701	Silicon Power	SP256GIMEA3K5EV0
256GB MEA3K0E - Industrial SSD - 3D TLC - M.2 2242 (B+M Key) - PCIe Gen3x2, NVMe 1.4 - SP256GIMEA3K5EVB	SP596175	Silicon Power	SP256GIMEA3K5EVB
256GB MEA3K0E - Industrial SSD - 3D TLC - M.2 2242 (B+M Key) - PCIe Gen3x2, NVMe 1.4 - Wide Temp - SP256GIMEA3K5EWB	SP596176	Silicon Power	SP256GIMEA3K5EWB
512GB MEA3K0E - Industrial SSD - 3D TLC - M.2 2242 (M Key) - PCIe Gen3x4, NVMe 1.4 - SP512GIMEA3K5EV0	SP595702	Silicon Power	SP512GIMEA3K5EV0
512GB MEA3K0E - Industrial SSD - 3D TLC - M.2 2242 (B+M Key) - PCIe Gen3x2, NVMe 1.4 - SP512GIMEA3K5EVB	SP596177	Silicon Power	SP512GIMEA3K5EVB
512GB MEA3K0E - Industrial SSD - 3D TLC - M.2 2242 (B+M Key) - PCIe Gen3x2, NVMe 1.4 - Wide Temp - SP512GIMEA3K5EWB	SP596178	Silicon Power	SP512GIMEA3K5EWB
1TB MEA3K0E - Industrial SSD - 3D TLC - M.2 2242 (M Key) - PCIe Gen3x4, NVMe 1.4 - SP010TIMEA3K5EV0	SP595703	Silicon Power	SP010TIMEA3K5EV0
1TB MEA3K0E - Industrial SSD - 3D TLC - M.2 2242 (B+M Key) - PCIe Gen3x2, NVMe 1.4 - SP010TIMEA3K5EVB	SP596179	Silicon Power	SP010TIMEA3K5EVB
1TB MEA3K0E - Industrial SSD - 3D TLC - M.2 2242 (B+M Key) - PCIe Gen3x2, NVMe 1.4 - Wide Temp - SP010TIMEA3K5EWB	SP596180	Silicon Power	SP010TIMEA3K5EWB

Product Datasheet | SP596176

256GB MEA3K0E - Industrial SSD - 3D TLC - M.2 2242 (B+M Key) - PCIe Gen3x2, NVMe 1.4 -
Wide Temp - SP256GIMEA3K5EWB



Contact Information

PHS-electronic gmbh
- www.phs-memory.com -
Karl-Götz-Str. 5
97424 Schweinfurt
Germany

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

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