

256GB MEC3M0E - Industrial SSD - 3D TLC - M.2 2280 (M Key) - PCIe Gen4x4, NVMe 2.0 - Wide Temp - SP256GIMEC3M5EW0



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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 Gen4x4, NVMe 2.0 |
| Flash Technology | 3D TLC |
| Capacity | 256GB |
| Form Factor | M.2 2280 (M key) |
| Dimensions | 80.0 x 22.0 x 3.5 mm |
| External DRAM Buffer | No |
| Manufacturer Part No. | SP256GIMEC3M5EW0 |

Performance

| | |
|-------------------------------|----------------|
| Seq. Performance Read (max.) | 4,600 MB/s |
| Seq. Performance Write (max.) | 4,300 MB/s |
| Random 4K Read (IOPS max.) | 845,000 |
| Random 4K Write (IOPS max.) | 644,000 |
| MTBF @ 25 °C | >3,000,000 hrs |
| P/E Cycle | 3,000 |
| TBW | 642 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 p-p, 10~2000Hz |
| Drop | 75cm |
| Shock | 1,500G@0.5ms |

Power Consumption

| | |
|------------------------|---------|
| Power Requirement | DC 3.3V |
| Power Operation (max.) | 1670mA |
| Power Idle / Standby | 220mA |

Key Features

| | |
|----------------------------|----------|
| Advanced Power Shield | Yes |
| End-to-End Data Protection | Yes |
| TCG Opal 2.0 | Yes |
| AES-256 | Yes |
| Thermal Throttling | Yes |
| DEVSLP | Yes |
| S.M.A.R.T | Yes |
| Write Protect | Optional |
| Quick Erase | Optional |
| DAP | Yes |
| FWxpress | Yes |

EAN 4713436156864

manufacturer Silicon Power

Other possible options

| Product | SKU | Brand | Reference no. |
|---|----------|---------------|------------------|
| 128GB MEC3M0E - Industrial SSD - 3D TLC - M.2 2280 (M Key) - PCIe Gen4x4, NVMe 2.0 - SP128GIMEC3M5EV0 | SP596069 | Silicon Power | SP128GIMEC3M5EV0 |
| 128GB MEC3M0E - Industrial SSD - 3D TLC - M.2 2280 (M Key) - PCIe Gen4x4, NVMe 2.0 - Wide Temp - SP128GIMEC3M5EW0 | SP596070 | Silicon Power | SP128GIMEC3M5EW0 |
| 256GB MEC3M0E - Industrial SSD - 3D TLC - M.2 2280 (M Key) - PCIe Gen4x4, NVMe 2.0 - SP256GIMEC3M5EV0 | SP596071 | Silicon Power | SP256GIMEC3M5EV0 |
| 256GB MEC3M0E - Industrial SSD - 3D TLC - M.2 2280 (M Key) - PCIe Gen4x4, NVMe 2.0 - Wide Temp - SP256GIMEC3M5EW0 | SP596072 | Silicon Power | SP256GIMEC3M5EW0 |
| 512GB MEC3M0E - Industrial SSD - 3D TLC - M.2 2280 (M Key) - PCIe Gen4x4, NVMe 2.0 - SP512GIMEC3M5EV0 | SP596073 | Silicon Power | SP512GIMEC3M5EV0 |
| 256GB MEC3M0E - Industrial SSD - 3D TLC - M.2 2280 (M Key) - PCIe Gen4x4, NVMe 2.0 - Wide Temp - SP512GIMEC3M5EW0 | SP596074 | Silicon Power | SP512GIMEC3M5EW0 |
| 1GB MEC3M0E - Industrial SSD - 3D TLC - M.2 2280 (M Key) - PCIe Gen4x4, NVMe 2.0 - SP010TIMEC3M5EV0 | SP596075 | Silicon Power | SP010TIMEC3M5EV0 |
| 1TB MEC3M0E - Industrial SSD - 3D TLC - M.2 2280 (M Key) - PCIe Gen4x4, NVMe 2.0 - Wide Temp - SP010TIMEC3M5EW0 | SP596076 | Silicon Power | SP010TIMEC3M5EW0 |
| 2TB MEC3M0E - Industrial SSD - 3D TLC - M.2 2280 (M Key) - PCIe Gen4x4, NVMe 2.0 - SP020TIMEC3M5EV0 | SP596077 | Silicon Power | SP020TIMEC3M5EV0 |
| 2TB MEC3M0E - Industrial SSD - 3D TLC - M.2 2280 (M Key) - PCIe Gen4x4, NVMe 2.0 - Wide Temp - SP020TIMEC3M5EW0 | SP596078 | Silicon Power | SP020TIMEC3M5EW0 |
| 4TB MEC3M0E - Industrial SSD - 3D TLC - M.2 2280 (M Key) - PCIe Gen4x4, NVMe 2.0 - SP040TIMEC3M5EV0 | SP596079 | Silicon Power | SP040TIMEC3M5EV0 |
| 4TB MEC3M0E - Industrial SSD - 3D TLC - M.2 2280 (M Key) - PCIe Gen4x4, NVMe 2.0 - Wide Temp - SP040TIMEC3M5EW0 | SP596118 | Silicon Power | SP040TIMEC3M5EW0 |

Contact Information

Product Datasheet | SP596072

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