

## 2TB MEC3M0E - Industrial SSD - 3D TLC - M.2 2280 (M Key) - PCIe Gen4x4, NVMe 2.0 - Wide Temp - SP020TIMEC3M5EW0



Preis auf Anfrage

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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              | 2TB                   |
| Form Factor           | M.2 2280 (M key)      |
| Dimensions            | 80.0 x 22.0 x 3.5 mm  |
| External DRAM Buffer  | No                    |
| Manufacturer Part No. | SP020TIMEC3M5EW0      |

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                           | 5,137 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          | 4713436156895 |
| 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 | SP596078

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