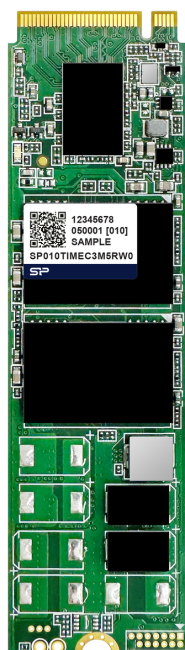


## 1TB MEC3M0R - Industrial SSD - 3D TLC - M.2 2280 (M Key) - PCIe Gen4x4, NVMe 2.0 - SP010TIMEC3M5RW0



Preis auf Anfrage

<https://www.phs-memory.it>  
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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              | 1TB                   |
| Form Factor           | M.2 2280 (M key)      |
| Dimensions            | 80.0 x 22.0 x 3.5 mm  |
| External DRAM Buffer  | No                    |
| Manufacturer Part No. | SP010TIMEC3M5RW0      |

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                           | 2,569 TB       |

Operating Environment

|                            |                                      |
|----------------------------|--------------------------------------|
| Operating Temperature      | -40°C~85°C                           |
| Extended Temperature Range | -40°C~105°C                          |
| Storage Temperature        | -55°C~95°C                           |
| Operating Humidity         | 10%~95%<br>(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.) | 1650mA  |
| Power Idle / Standby   | 220mA   |

Key Features

|                                |          |
|--------------------------------|----------|
| Power Failure Protection (PFP) | Yes      |
| 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      |

## Product Datasheet | SP595257

1TB MEC3M0R - Industrial SSD - 3D TLC - M.2 2280 (M Key) - PCIe Gen4x4, NVMe 2.0 -  
SP010TIMEC3M5RW0



### manufacturer

Silicon Power

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## Other possible options

| Product                                                                                               | SKU      | Brand         | Reference no.    |
|-------------------------------------------------------------------------------------------------------|----------|---------------|------------------|
| 2TB MEC3M0R - Industrial SSD - 3D TLC - M.2 2280 (M Key) - PCIe Gen4x4, NVMe 2.0 - SP020TIMEC3M5RW0   | SP595258 | Silicon Power | SP020TIMEC3M5RW0 |
| 1TB MEC3M0R - Industrial SSD - 3D TLC - M.2 2280 (M Key) - PCIe Gen4x4, NVMe 2.0 - SP010TIMEC3M5RW0   | SP595257 | Silicon Power | SP010TIMEC3M5RW0 |
| 512GB MEC3M0R - Industrial SSD - 3D TLC - M.2 2280 (M Key) - PCIe Gen4x4, NVMe 2.0 - SP512GIMEC3M5RW0 | SP595256 | Silicon Power | SP512GIMEC3M5RW0 |
| 256GB MEC3M0R - Industrial SSD - 3D TLC - M.2 2280 (M Key) - PCIe Gen4x4, NVMe 2.0 - SP256GIMEC3M5RW0 | SP595255 | Silicon Power | SP256GIMEC3M5RW0 |
| 128GB MEC3M0R - Industrial SSD - 3D TLC - M.2 2280 (M Key) - PCIe Gen4x4, NVMe 2.0 - SP128GIMEC3M5RW0 | SP595254 | Silicon Power | SP128GIMEC3M5RW0 |

## Contact Information

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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>