

## 128GB MEM3K0E - Industrial SSD - 3D TLC - M.2 2230 (M Key) - PCIe Gen3x4, NVMe 1.4 - SP128GIMEM3K5EV0



Preis auf Anfrage

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

Version: 09.09.2025 15:34

### 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              | 128GB                 |
| Form Factor           | M.2 2230 (M key)      |
| Dimensions            | 30.0 x 22.0 x 3.5 mm  |
| External DRAM Buffer  | No                    |
| Manufacturer Part No. | SP128GIMEM3K5EV0      |

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                           | 307 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          | 4713436154662 |
| 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.com -  
Karl-Götz-Str. 5  
97424 Schweinfurt  
Germany

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

## Product Datasheet | SP596189

128GB MEM3K0E - Industrial SSD - 3D TLC - M.2 2230 (M Key) - PCIe Gen3x4, NVMe 1.4 -  
SP128GIMEM3K5EV0



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>