# SQF-C8M ER-1

## PCIe Gen.4 x4 M.2 2280 SSD

## Features

- NGFF M.2 2280 (M Key)
- Compliant with NVMe 1.4
- AES-256 Support & TCG-OPAL Compliant
- Supports LDCP & RAID ECC
- Read-Intensive and Mixed-Use support
- Heat-spreading design with thermal solution
- SMART and GUI management tool

RoHS COMPLIANT 2002/95/EC CE FCC

DeviceOn/ SQManager | Life Monitoring | TCG OPAL

## Specifications

| | |
|---|---|
| Connect Type | NGFF M Key |
| Flash type | 3D TLC |
| Capacity | 400GB ~ 3.2TB |
| Transfer Mode | PCIe Gen.4 x4 |
| Max. Power Consumption | Read: 7.3 W, Write: 6.1 W |
| Sequential R/W Performance (*) | up to 6,500/ 5,000 MB/sec |
| Random R/W IOPS (*) | up to 779K/ 753K |
| Endurance (DWPD) | Read-Intensive: DWPD 1<br>Mixed-Use: DWPD 3 |
| Operating Temperature | Commercial grade: 0 to +70 °C<br>Industrial grade: -40 to +85 °C |
| Shock Resistance | 1,500 G, peak / 0.5 ms |
| Vibration Resistance | 20 G, peak / 80 ~ 2000 Hz |
| Dimensions (mm) | 80.4 x 23.3 x 20.5 |

(*) These values are for reference only; they may change according to the flash memory used.

15323776600

## Ordering Information

| PN | Description |
|---|---|
| SQF-C8MV4-400GDG1C | SQF PCIe/NVMe M.2 2280 ER-1 400G 3D TLC, DWPD 1 (0 ~ 70 °C) |
| SQF-C8MV4-800GDG1C | SQF PCIe/NVMe M.2 2280 ER-1 800G 3D TLC DWPD 1 (0 ~ 70 °C) |
| SQF-C8MV4-1K6GDG1C | SQF PCIe/NVMe M.2 2280 ER-1 1600G 3D TLC DWPD 1 (0 ~ 70 °C) |
| SQF-C8MV4-3K2GDG1C | SQF PCIe/NVMe M.2 2280 ER-1 3200G 3D TLC DWPD 1 (0 ~ 70 °C) |
| SQF-C8MV4-400GDG1E | SQF PCIe/NVMe M.2 2280 ER-1 400G 3D TLC DWPD 1 (-40 ~ 85 °C) |
| SQF-C8MV4-800GDG1E | SQF PCIe/NVMe M.2 2280 ER-1 800G 3D TLC DWPD 1 (-40 ~ 85 °C) |
| SQF-C8MV4-1K6GDG1E | SQF PCIe/NVMe M.2 2280 ER-1 1600G 3D TLC DWPD 1 (-40 ~ 85 °C) |
| SQF-C8MV4-3K2GDG1E | SQF PCIe/NVMe M.2 2280 ER-1 3200G 3D TLC DWPD 1 (-40 ~ 85 °C) |
| SQF-C8MF4C400GDG1C | SQF PCIe/NVMe M.2 2280 ER-1 400G 3D TLC DWPD 3 (0 ~ 70 °C) |
| SQF-C8MF4C800GDG1C | SQF PCIe/NVMe M.2 2280 ER-1 800G 3D TLC DWPD 3 (0 ~ 70 °C) |
| SQF-C8MF4C1K6GDG1C | SQF PCIe/NVMe M.2 2280 ER-1 1600G 3D TLC DWPD 3 (0 ~ 70 °C) |
| SQF-C8MF4C3K2GDG1C | SQF PCIe/NVMe M.2 2280 ER-1 3200G 3D TLC DWPD 3 (0 ~ 70 °C) |



All product specifications are subject to change without notice.