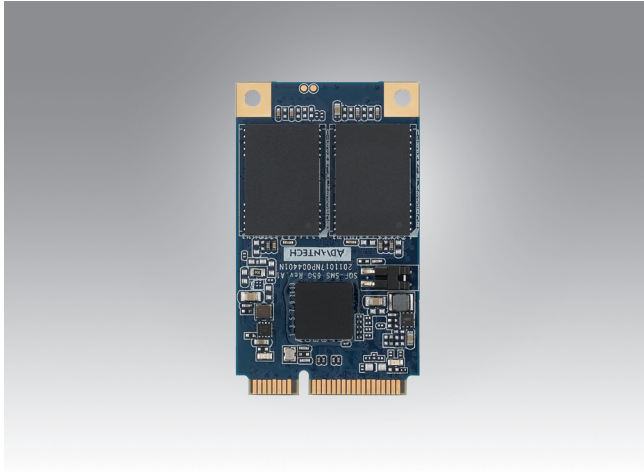


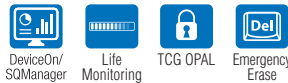
# SQF-SMS 650

SATA III (6.0Gb) mSATA SSD



## Features

- SATA 3.2 Compliant
- High Endurance sTLC Product Selection
- AES-256 Support & TCG-OPAL Compliant
- Support HW Write Protection
- Supports LDPC & RAID ECC
- DeviceOn SQManager & software API package
- Multiple Temperature Range Product Selection
- Software and Hardware Security Functions



## Specifications

Connect Type	Mini PCIe 52pin connector with SATA pin-out
Flash type	3D TLC/ 3D sTLC
Capacity	3D TLC: 64GB ~ 2TB 3D sTLC: 32GB ~ 512GB
Transfer Mode	SATA III (Up to 6Gb/s)
Max. Power Consumption	3D TLC: Read: 1.5 W, Write: 1.75 W 3D sTLC: Read: 1.45 W, Write: 1.4 W
Sustained R/W Performance (*)	Up to 550/ 520 MB/sec
Operating Temperature	Commercial Temperature: 0 to +70 °C Minus Temperature: -20 to +85 °C Extended Temperature: -40 to +85 °C
Shock Resistance	1,500 G, peak / 0.5 ms
Vibration Resistance	20 G, peak / 80 ~ 2000 Hz
Dimensions (mm)	50.8 x 30.0 x 4.2

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

## Ordering Information

PN	Description
SQF-SMSV1-64GSDC	SQF mSATA 650-D 64G 3D TLC (BiCS5) (0-70°C)
SQF-SMSV2-128GSDC	SQF mSATA 650-D 128G 3D TLC (BiCS5) (0-70°C)
SQF-SMSV2-256GSDC	SQF mSATA 650-D 256G 3D TLC (BiCS5) (0-70°C)
SQF-SMSV2-512GSDC	SQF mSATA 650-D 512G 3D TLC (BiCS5) (0-70°C)
SQF-SMSV4-1TSDC	SQF mSATA 650-D 1T 3D TLC (BiCS5) (0-70°C)
SQF-SMSV4-2TSDC	SQF mSATA 650-D 2T 3D TLC (BiCS5) (0-70°C)
SQF-SMSV1-64GSDM	SQF mSATA 650-D 64G 3D TLC (BiCS5) (-20-85°C)
SQF-SMSV2-128GSDM	SQF mSATA 650-D 128G 3D TLC (BiCS5) (-20-85°C)
SQF-SMSV2-256GSDM	SQF mSATA 650-D 256G 3D TLC (BiCS5) (-20-85°C)
SQF-SMSV2-512GSDM	SQF mSATA 650-D 512G 3D TLC (BiCS5) (-20-85°C)
SQF-SMSV4-1TSDM	SQF mSATA 650-D 1T 3D TLC (BiCS5) (-20-85°C)
SQF-SMSV4-2TSDM	SQF mSATA 650-D 2T 3D TLC (BiCS5) (-20-85°C)
SQF-SMSV1-64GDSDE	SQF mSATA 650-D 64G 3D TLC (BiCS5) (-40-85°C)
SQF-SMSV2-128GDSDE	SQF mSATA 650-D 128G 3D TLC (BiCS5) (-40-85°C)
SQF-SMSV2-256GDSDE	SQF mSATA 650-D 256G 3D TLC (BiCS5) (-40-85°C)
SQF-SMSV2-512GDSDE	SQF mSATA 650-D 512G 3D TLC (BiCS5) (-40-85°C)
SQF-SMSV4-1TDSDE	SQF mSATA 650-D 1T 3D TLC (BiCS5) (-40-85°C)
SQF-SMSV4-2TDSDE	SQF mSATA 650-D 2T 3D TLC (BiCS5) (-40-85°C)

PN	Description
SQF-SMSZ2-32GSDC	SQF mSATA 650-D 32G 3D sTLC (BiCS5) (0-70°C)
SQF-SMSZ2-64GSDC	SQF mSATA 650-D 64G 3D sTLC (BiCS5) (0-70°C)
SQF-SMSZ2-128GSDC	SQF mSATA 650-D 128G 3D sTLC (BiCS5) (0-70°C)
SQF-SMSZ4-256GSDC	SQF mSATA 650-D 256G 3D sTLC (BiCS5) (0-70°C)
SQF-SMSZ4-512GSDC	SQF mSATA 650-D 512G 3D sTLC (BiCS5) (0-70°C)
SQF-SMSZ2-32GDSDE	SQF mSATA 650-D 32G 50K P/E cycle 3D sTLC (BiCS5) (-40-85°C)
SQF-SMSZ2-64GDSDE	SQF mSATA 650-D 64G 50K P/E cycle 3D sTLC (BiCS5) (-40-85°C)
SQF-SMSZ2-128GDSDE	SQF mSATA 650-D 128G 50K P/E cycle 3D sTLC (BiCS5) (-40-85°C)
SQF-SMSZ4-256GDSDE	SQF mSATA 650-D 256G 50K P/E cycle 3D sTLC (BiCS5) (-40-85°C)
SQF-SMSZ4-512GDSDE	SQF mSATA 650-D 512G 50K P/E cycle 3D sTLC (BiCS5) (-40-85°C)
SQF-SMSH2-32GDSDE	SQF mSATA 650-D 32G 100K P/E cycle 3D sTLC (BiCS5) (-40-85°C)
SQF-SMSH2-64GDSDE	SQF mSATA 650-D 64G 100K P/E cycle 3D sTLC (BiCS5) (-40-85°C)
SQF-SMSH2-128GDSDE	SQF mSATA 650-D 128G 100K P/E cycle 3D sTLC (BiCS5) (-40-85°C)
SQF-SMSH4-256GDSDE	SQF mSATA 650-D 256G 100K P/E cycle 3D sTLC (BiCS5) (-40-85°C)
SQF-SMSH4-512GDSDE	SQF mSATA 650-D 512G 100K P/E cycle 3D sTLC (BiCS5) (-40-85°C)