

Datasheet

M.2 (S80) 3TE7 series

- M.2 SATA III solution for industrial field
- Exclusive L³ architecture
- DRAM-less, 100% data integrity
- Excellent random performance
- Supports TRIM/NCQ/SMART
- Built in iData Guard
- Compatible with M.2 2280-D2-B-M standard
- Designed with hardware LDPC ECC engine



Introduction

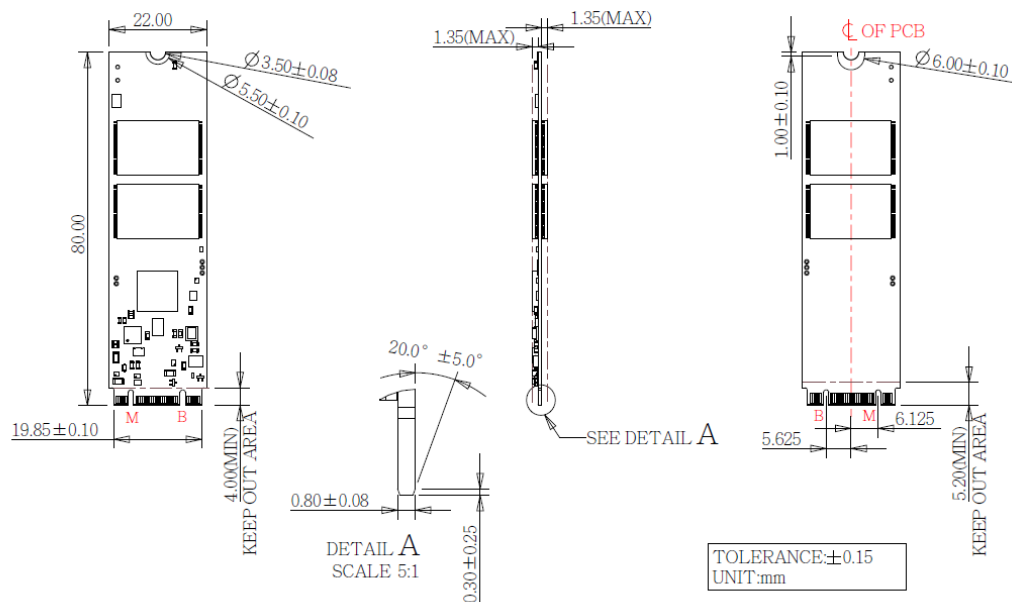
Innodisk M.2 (S80) 3TE7 SATA III Solid State Drive adopts latest SATA III NAND controller with Innodisk's exclusive L³ FW architecture which incorporates powerful LDPC technology into Innodisk signature 4K mapping L² FW architecture. 3TE7 series have outstanding high IOPS, better data integrity and extended lifespan through implementation of Die-Raid protection. Built-in thermal sensor and iData Guard also ensure data integrity and reliability of 3TE7 for industrial applications.

Innodisk M.2 (S80) 3TE7 is designed for industrial field and supports several advanced features including TRIM, NCQ, and S.M.A.R.T. In addition, Innodisk's exclusive industrial-oriented firmware provides flexible customization service, making 3TE7 a perfect option for a variety of industrial applications.

M.2 (S80)

3TE7 series

Diagram



Specifications

Interface	SATA III
Flash Type	3D TLC
P/E cycle	3,000
Capacity	64GB~2TB
Max. Channels	4
Sequential R/W (MB/sec, max.)	560/520
Max. Power Consumption	1.8W
Thermal Sensor	✓
External DRAM buffer	-
H/W Write Protect	Optional
ATA Security	✓
S.M.A.R.T.	✓
Dimension (WxLxH)	22.0 X 42.0 X 3.5 mm
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -55°C ~ +95°C MTBF: 3 million hours

Ordering Information

Operation Temp.		64GB	128GB	256GB	512GB	1TB	2TB
96 layers 3D TLC	Standard Grade (0°C ~ +70°C)	DEM28-64GDK1GC1SL	DEM28-A28DK1GC1QL	DEM28-A28DK1GC1QL	DEM28-C12DK1GC1QL	DEM28-01TDK1GCAQL	DEM28-02TDK1GCAQQ
	Industrial Grade (-40°C ~ +85°C)	DEM28-64GDK1GW1SL	DEM28-A28DK1GW1DL	DEM28-B56DK1GW1QL	DEM28-C12DK1GW1QL	DEM28-01TDK1GWAQL	DEM28-02TDK1GWAQQ
112 layers 3D TLC	Standard Grade (0°C ~ +70°C)	DEM28-64GDK1KCASL	DEM28-A28DK1KCADL	DEM28-B56DK1KCA&L	DEM28-C12DK1KCAQL	DEM28-01TDK1KCAQL	DEM28-02TDK1KCAQL

&. D: 2 Channel; Q: 4 Channel

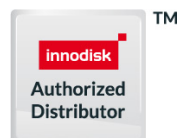
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The logo for innodisk, featuring the word "innodisk" in white lowercase letters on a red rectangular background. A small red square is positioned at the top right corner of the red rectangle.

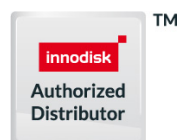
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