Datasheet

M.2 (S80)
3TE7 series

- SATA III soultion for industrial field
- Exclusive L^3 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

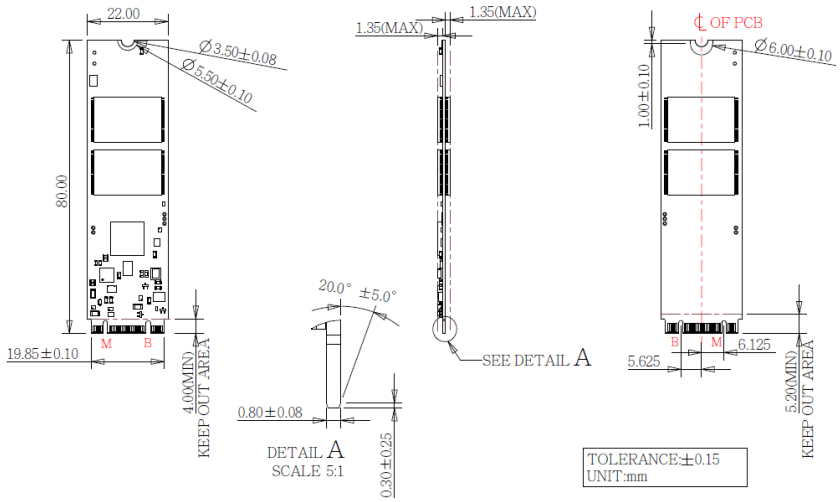
Innodisk M.2 (S80) 3TE7 is SATA III 6.0 Gb/s flash based disk, which adopts latest SATA III NAND controller with Innodisk's exclusive L³ FW architecture. The upgraded L³ FW architecture, combining Innodik signature 4K mapping algorithm L² FW architecture with powerful LDPC technology, makes 3TE7 series have outstanding high IOPS, better data integrity and extended lifespan through reducing the bad block number happening. Built-in thermal sensor, and iData Guard ensure data integrity and reliability of 3TE7 for industrial applications.

Innodisk M.2 (S80) 3TE7 is designed for industrial field, and supports several standard features, including TRIM, NCQ, and S.M.A.R.T. In addition, Innodisk's exclusive industrial-oriented firmware provides a flexible customization service, making it perfect 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	32GB~1TB
Max. Channels	4
Sequential R/W (MB/sec, max.)	560/340
Max. Power Consumption	2.0W(3.3V x614mA)
Thermal Sensor	√
External DRAM buffer	-
H/W Write Protect	Optional
ATA Security	√
S.M.A.R.T.	√
Dimension (WxLxH)	22.0 X 80.0 X 3.5 mm (Max)
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -55°C ~ +95°C MTBF: 3 million hours

© 2019 Innodisk Corporation.
All right reserved. Specifications are subject to change without prior notice.

20190425

Ordering Information

Operation Temp.	32GB	64GB	128GB	256GB	512GB	1TB
Standard Grade (0°C ~ +70°C)	DEM28-32GDK1EC1SF	DEM28-64GDK1EC1DF	DEM28-A28DK1EC1QF	DEM28-B56DK1EC1QF	DEM28-C12DK1EC1QF	DEM28-01TDK1ECAQF
Industrial Grade (-40°C ~ +85°C)	DEM28-32GDK1EW1SF	DEM28-64GDK1EW1DF	DEM28-A28DK1EW1QF	DEM28-B56DK1EW1QF	DEM28-C12DK1EW1QF	DEM28-01TDK1EWAQF

Operation Temp.	32GB	64GB	128GB	256GB	512GB	1TB
Standard Grade (0°C ~ +70°C)	DEM28-32GDK1EC1SL*	DEM28-64GDK1EC1DL*	DEM28-A28DK1EC1QL*	DEM28-B56DK1EC1QL*	DEM28-C12DK1ECAQL*	TBD*

*with Innodisk 96 Layers 3D TLC NAND flash

innodisk

Distributore Autorizzato per l'Italia:

Contradata Milano S.r.l.

Via Solferino 12, 20900 Monza (MB) - Italy

Tel: (+39) 039-230.14.92 | Email: info@contradata.it

innodisk Authorized Distributor™

©2020 Innodisk

www.contradata.it