Datasheet

# M.2 (S80) 3TE7 series

- M.2 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 SATA III Solid State Drive adopts latest SATA III NAND controller with Innodisk's exclusive $L^3$ FW architecture which incorporates powerful LDPC technology into Innodisk signature 4K mapping $L^2$ 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

***Contact us for more information about the M.2 (S80) 3TE7.***

Innodisk is a service-driven provider of industrial embedded flash and DRAM storage products and technologies, with a focus on the cloud computing, industrial/embedded, and aerospace and defense industries.


**Headquarters (Taiwan)**

5F., No. 237, Sec. 1, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
Tel: +886-2-7703-3000
Email: sales@innodisk.com

**Branch Offices:**

USA
usasales@innodisk.com
+1-510-770-9421
Europe
eusales@innodisk.com
+31-40-3045-400
Japan
jpsales@innodisk.com
+81-3-6667-0161
China
sales_cn@innodisk.com
+86-755-21673689
**www.innodisk.com**

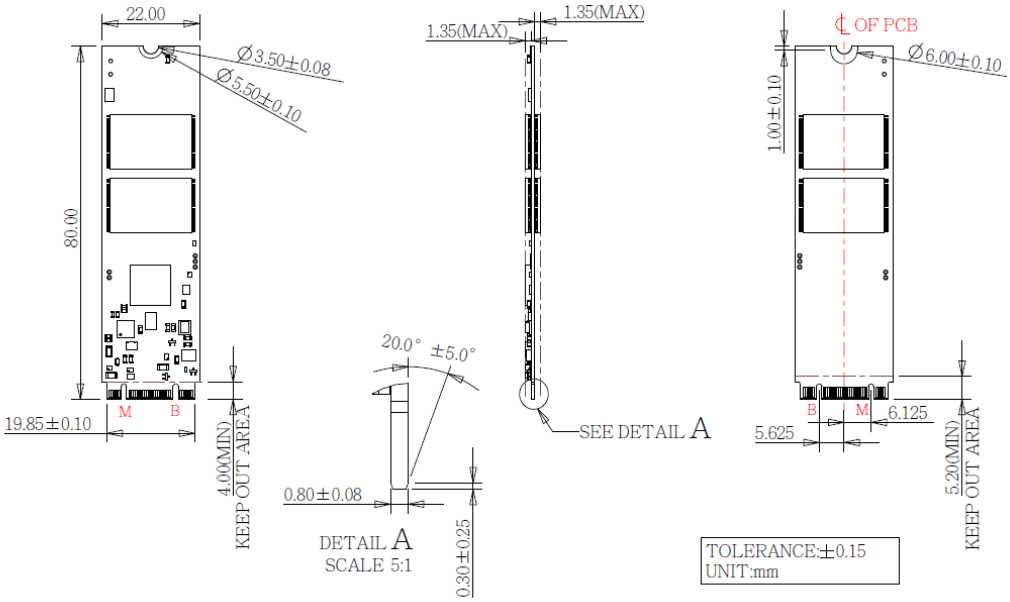


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## Diagram




## Specifications

| | |
|---|---|
| Interface | SATA III |
| Flash Type | 3D TLC |
| P/E cycle | 3,000 |
| Capacity | 32GB~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<br>Shock: 1500G @ 0.5ms<br>Storage Temperature: -55°C ~ +95°C<br>MTBF: 3 million hours |

## Ordering Information

| Operation Temp. | 32GB | 64GB | 128GB | 256GB | 512GB | 1TB | 2TB |
|---|---|---|---|---|---|---|---|
| Standard Grade (0°C ~ +70°C) | DEM28-32GDK1*C1SL | DEM28-64GDK1*C1DL | DEM28-A28DK1*C1QL | DEM28-A28DK1*C1QL | DEM28-C12DK1*C1QL | DEM28-01TDK1GCAQL | DEM28-02TDK1GCAQQ |

*. E: 64 Layers 3D TLC; G: 96 Layers 3D TLC