Datasheet

M.2 (S80)
3IE series

- iSLC technology
- SATA III solution for industrial field
- iSMART disk health monitoring
- Intelligent error recovery system
- Excellent data transfer speed
- Write protection security
- Zero mechanical interference
- Anti-vibration mechanical design

Introduction

iSLC [3IE series], designed to outdo the endurance, performance and reliability of MLC-based solutions. Through the use of flash management algorithms, iSLC improves SSD endurance up to 20,000 times, increasing lifespans up to 6 times longer than MLC-based solutions. In addition, iSLC improves the performance of solid state drives, with similar write performance of SLC-based solutions, and with data quality that is on par with SLC technologies. The Innodisk iSLC series is cost efficient, boasting excellent benefits at only half the price of SLC-based solutions.
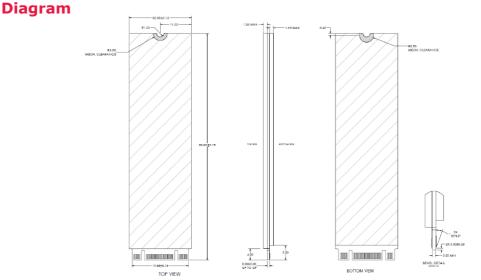
Innodisk M.2 (S80) 3IE is designed as the standard M.2 form factor with SATA interface, and supports SATA III standard (6.0Gb/s) with excellent performance. The form factor refers to the M.2 (NGFF) specification which established by JEDEC. Regarding of mechanical interference, Innodisk M.2 (S80) 3IE absolutely replaces the traditional hard disk and makes personal computer, in any field, smaller and easier.

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M.2 2280
3IE series

Contact us for more information about the M2 (S80) 3IE.

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.

Diagram

TOP VIEW   BOTTOM VIEW   BEVEL DETAIL

Specifications

Interface	SATA III
Flash Type	iSLC
P/E cycle	20,000
Capacity	64GB~256GB
Max. Channels	4
Sequential R/W (MB/sec, max.)	460 / 370
Max. Power Consumption	1.6 W (3.3V x 467 mA)
Thermal Sensor	ST- optional/ WT- default
External DRAM buffer	-
H/W Write Protect	-
ATA Security	√
S.M.A.R.T.	√
Dimension (WxLxH)	22.0 X 80.0 X 4.5 mm
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -55°C ~ +95°C MTBF: 3 million hours

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Ordering Information

Operation Temp.	64GB	128GB	256GB
Standard Grade (0°C ~ +70°C)	DHM28-64GD062CAQC	DHM28-A28D062CAQC	DHM28-B56D062CAQC
Industrial Grade (-40°C ~ +85°C)	DHM28-64GD062WAQC	DHM28-A28D062WAQC	DHM28-B56D062WAQC

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