

Datasheet

M.2 (S80) 3IS4 series

- SATA III solution for Server Boot-Up Drive
- Exclusive L³ architecture
- DRAM-less, 100% data integrity
- Excellent random performance
- Designed with hardware LDPC ECC engine
- Cost-effective flash with iSLC
- iData Guard for abnormal power failure
- iSMART disk health monitoring



Introduction

Innodisk M.2 (S80) 3IS4 is characterized by **L³ architecture with the latest SATA III** (6.0GHz) Marvell NAND controller. Innodisk's exclusive L³ architecture is L² architecture multiplied LDPC (Low Density Parity Check). L² (Long Life) architecture is a 4K mapping algorithm that reduces WAF and features a real-time wear leveling algorithm to provide high performance and prolong lifespan with exceptional reliability.

Innodisk M.2 (S80) 3IS4 is designed for server field. It effectively reduces the booting time of operation system and has less power consumption compared to hard disk drive (HDD). The great benefit of M.2 (S80) 3IS4 is to be configured as a SATA boot device with no requirement on additional driver and without using a drive bay, making it perfect for server applications.

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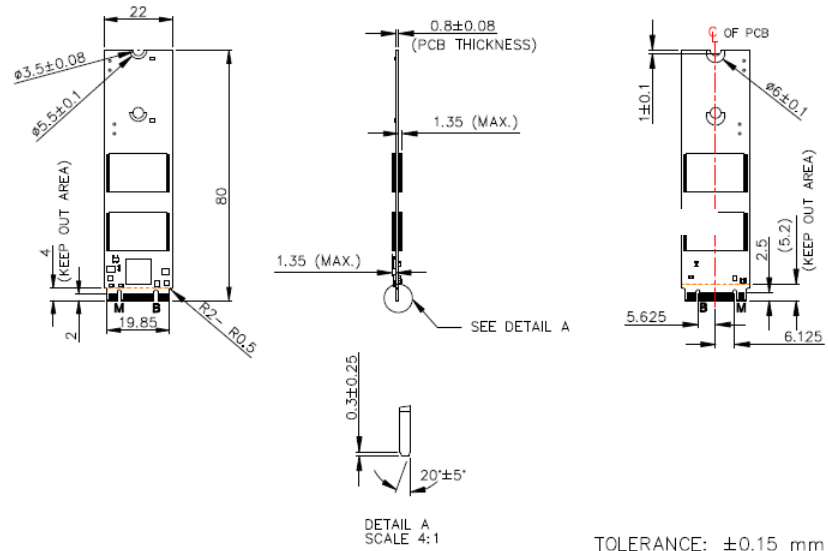


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M.2 (S80)

3IS4 series

Diagram



Specifications

Interface	SATA III
Flash Type	iSLC
P/E cycle	20,000
Capacity	8GB~128GB
Max. Channels	2
Sequential R/W (MB/sec, max.)	530/380
Max. Power Consumption	1.2W (3.3V x 370 mA)
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
Environment	Vibration: 20G @ 7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -55°C ~ +95°C MTBF: 3 million hours

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20171114

Ordering Information

Operation Temp.	8GB	16GB	32GB	64GB	128GB
Standard Grade (0°C ~ +70°C)	DSM28-08GM413C1SC DSM28-08GM413C1DC	DSM28-16GM413C1DC	DSM28-32GM413C1DC	DSM28-64GM413C1DC	DSM28-A28M413C1DC
Industrial Grade (-40°C ~ +85°C)	DSM28-08GM413W1SC DSM28-08GM413W1DC	DSM28-16GM413W1DC	DSM28-32GM413W1DC	DSM28-64GM413W1DC	DSM28-A28M413W1DC

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