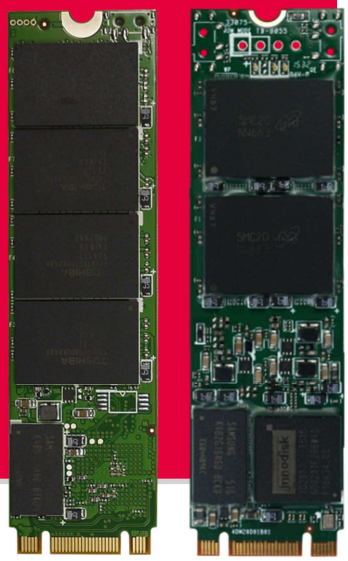
Datasheet

M.2 (S80) 3IS2-P series

- SATA III solution for Server Boot-Up Drive
- Cost-effective flash with iSLC
- iSMART disk health monitoring
- Intelligent error recovery system
- High IOPS to enhance boot up timing
- Zero mechanical interference
- iData Guard for abnormal power failure
- DEVSLP supported



Introduction

Innodisk M.2 (S80) 3IS2-P 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.

Innodisk M.2 (S80) 3IS2-P 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) 3IS2-P 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.

M.2 (S80)
3IS2-P series

Contact us for more information about the M2 (S80) 3IS2-P.

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.

Specifications

Interface	SATA III
Flash Type	iSLC
P/E cycle	20,000
Capacity	32GB~512GB
Max. Channels	4
Sequential R/W (MB/sec, max.)	560 / 450
Max. Power Consumption	1.5W (3.3V x 450mA)
Thermal Sensor	√
External DRAM buffer	√
H/W Write Protect	Optional, 512GB:N/A
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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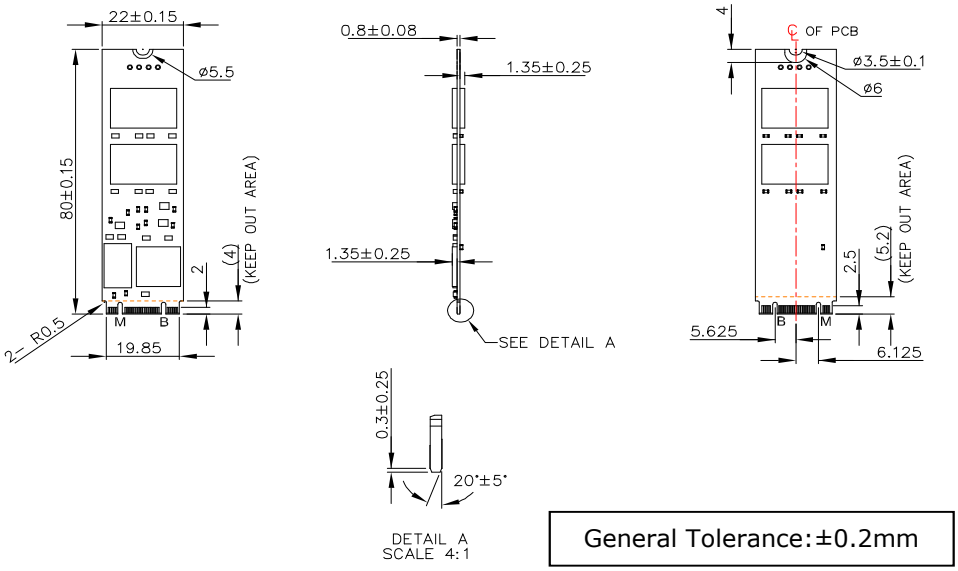
Ordering Information

Operation Temp.	32GB	64GB	128GB	256GB	512GB
Standard Grade (0°C ~ +70°C)	DSM28-32GD813CAQC	DSM28-64GD813CAQC	DSM28-A28D813CAQC	DSM28-B56D813CAQC	DSM28-C12D813CAQC
Industrial Grade (-40°C ~ +85°C)	DSM28-32GD813WAQC	DSM28-64GD813WAQC	DSM28-A28D813WAQC	DSM28-B56D813WAQC	DSM28-C12D813WAQC

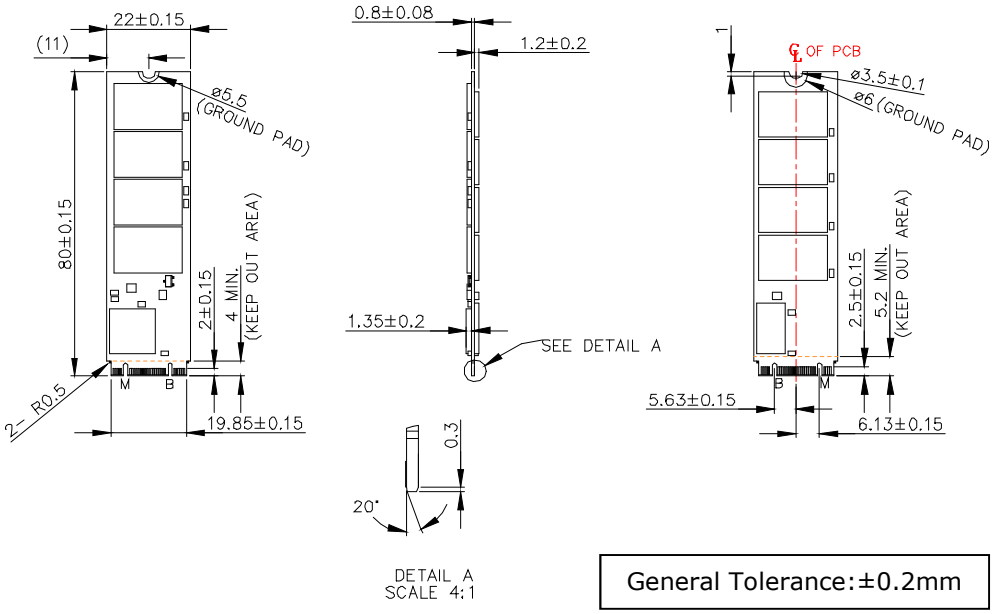
Diagram

152 ball BGA type (32GB-256GB)



General Tolerance:±0.2mm

132 ball BGA type (512GB)



General Tolerance:±0.2mm