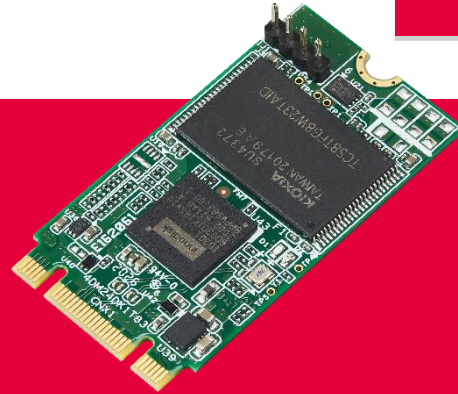# InnoOSR

M.2 (S42) 3TO7

- The World's First SSD Dedicates to System Recovery

- Firmware Level Back Up to Prevent Compatibility Issue

- Supports Hardware GPIO and Software Triggering

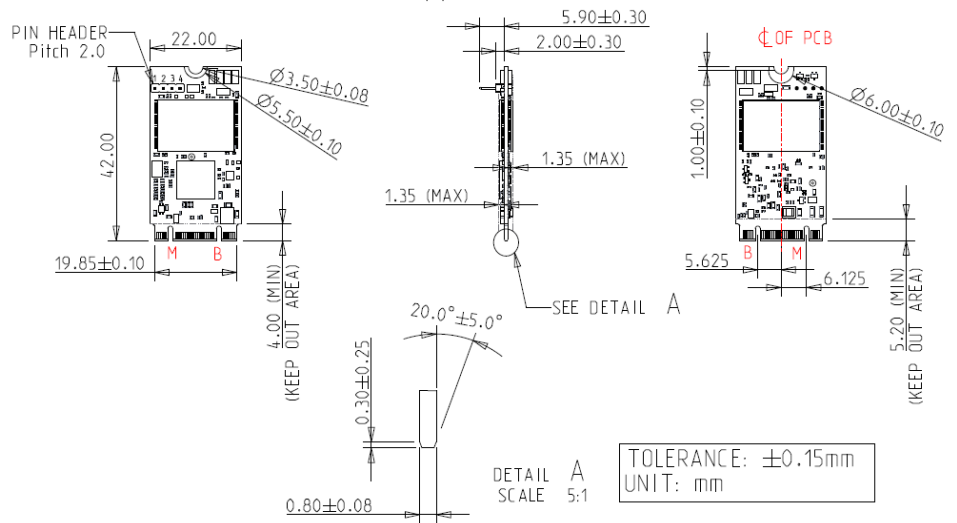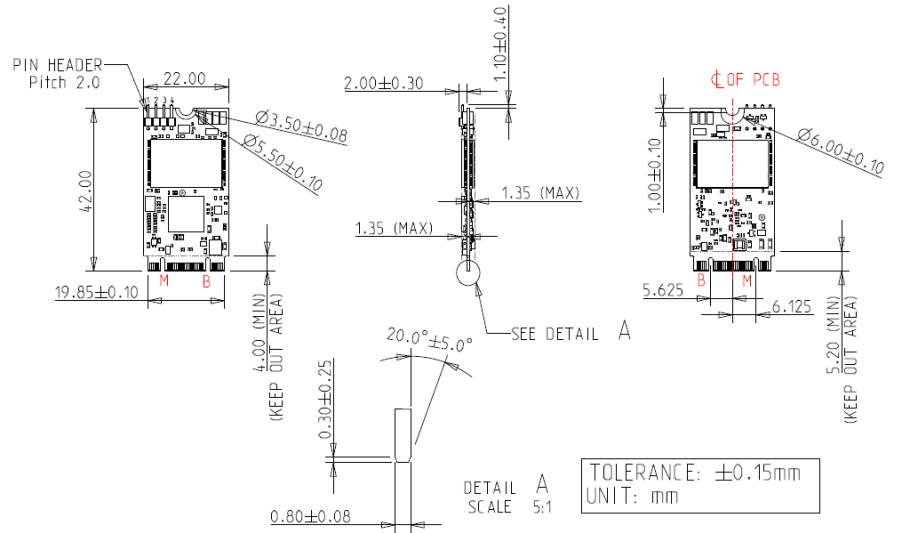- Reserved GPIO Pins to Accommodate your System Design

Introduction

Innodisk M.2 (S42) 3TO7 provides high capacity flash memory Solid State Drive (SSD) that electrically complies with Serial ATA (SATA) standard supporting up to SATA III standard (6.0Gb/s) speed and capable of achieving excellent performance with its 4 channels 4CE Innodisk ID301 controller. Besides outstanding balance of performance, rich form factors, capacity and customization flexibility, the key feature of InnoOSR family is the single-device, Firmware LBA level OS & Data back-up capability which enables on-site recovery of operating system by simple procedure such as GPIO triggering or application commands. Full Recovery, Just a Click Away.

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Product Dimension

Pin Header Number	Pin Define	Installation for Innodisk Demo Cable (PN: 7W3000000870)	Rating
1	GND	Red cable	NA
2	GPIO Pin8, Output for InnoOSR LED indication	Blue cable_0 that co-axis with red cable	3.3V ± 5%
3	GND	Blue cable_1/2	NA
4	GPIO Pin13, Input for InnoOSR Recovery Trigger, Low active	Blue cable_1/2	3.3V ± 5%

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www.innodisk.com
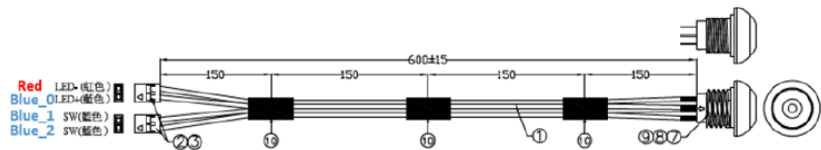
Specification

Interface	SATA III
Flash Type	3D TLC
Capacity	32GB~512GB
Flash Endurance	3,000 P/E cycles
Max. Channels	4
Sequential R/W (MB/sec, max.)*	500 / 330 MB/s
4KB Random (QD32) R/W (IOPS)**	57,000/73,500
Max. Power Consumption	1.6W
Thermal Sensor	√
ATA Security	√
S.M.A.R.T.	√
Dimension (WxLxH)	22.0 X 42.0 X 3.5 mm
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -55°C to +95°C MTBF: 3 million hours
* Performance based on CrystalDiskMark 6.0.2 with file size 1000MB	

Product Specification

Main feature of InnoOSR family is its OS back up and swift recovery mechanism, which allow field repair easier than ever for malfunction systems with software level damages. As shown in above picture,1 x 4 pin headers located on the rear end of PCBA can be used to interact with firmware of InnoOSR to trigger OS recovery process and provide LED signal which indicates the recovery status.

Ordering Information

Capacity	Standard Temperature (0°C~70°C)	Industrial Temperature (-40°C~85°C)
32GB	DUM24-32GDK1EC%SFXXG	DUM24-32GDK1EW%SFXXG
64GB	DUM24-64GDK1EC%DFXXG	DUM24-64GDK1EW%DFXXG
128GB	DUM24-A28DK1EC%QFXXG	DUM24-A28DK1EW%QFXXG
256GB	DUM24-B56DK1EC%QFXXG	DUM24-B56DK1EW%QFXXG
512GB	DUM24-C12DK1EC%QFXXG	DUM24-C12DK1EW%QFXXG
Note	1. **%: 1/A represent horizontal placement of pin headers; 2/B represent vertical placement of pin headers** 2. **XXG: 10G-30G** 3. **Push-button cable with green LED is with PN of 7W3000000870 and not included in above standard InnoOSR product PN but can be order separately for trial purpose**	