

Datasheet

# M.2 (S42) 3TG6-P series

- SATA III solution for industrial field
- Exclusive L<sup>3</sup> architecture
- AES-256bits encryption
- Excellent random performance
- Supports TRIM/NCQ/SMART
- Built in iData Guard
- Compatible with M.2 2242-D2-B-M standard
- Designed with hardware LDPC ECC engine



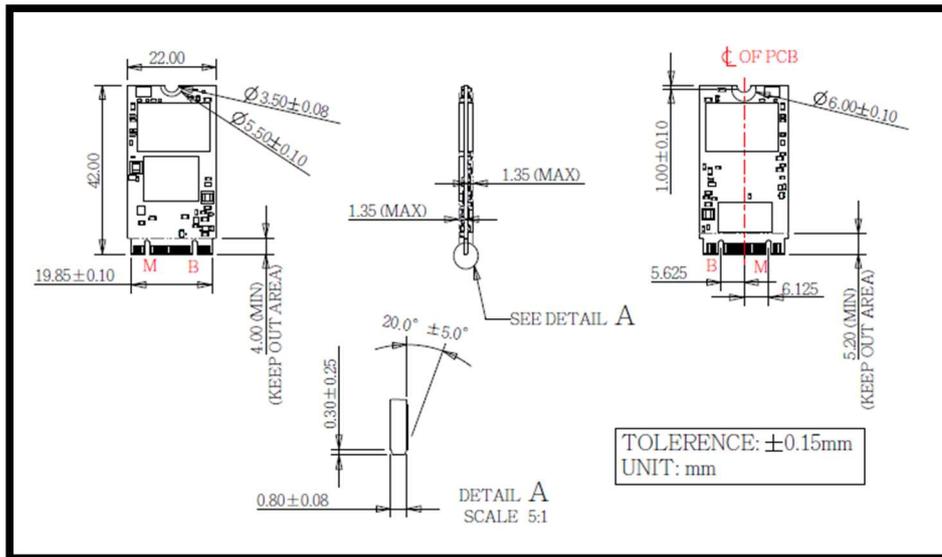
## Introduction

Innodisk M.2 (S42) 3TG6-P is SATA III 6.0 Gb/s flash based disk, which delivers excellent performance, especially in random data transfer rate, and which offers reliability making it the ideal solution for a variety of applications, including embedded system, industrial computing, and enterprise field. M.2 (S42) 3TG6-P not only performs unmatched performance, but also designed with Innodisk owned technical knowhow to ensure the data integrity and highest levels of reliability.

Innodisk M.2 (S42) 3TG6-P is designed for industrial field, and supports several standard features, including TRIM, NCQ, and S.M.A.R.T. In addition, Innodisk's exclusive industrial-oriented firmware provides a flexible customization service, making it perfect for a variety of industrial applications.

# M.2 (S42) 3TG6-P series

## Diagram



Contact us for more information about the M.2 (S42) 3TG6-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.

### 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](http://www.innodisk.com)

© 2019 Innodisk Corporation.  
All right reserved. Specifications are subject to change without prior notice.

20190225

## Specifications

Interface	SATA III
Flash Type	3D TLC
P/E cycle	3,000
Capacity	128GB~512GB
Max. Channels	4
Sequential R/W (MB/sec, max.)	560/510
Max. Power Consumption	2.44W (739mA $\times$ 3.3V)
Thermal Sensor	✓
External DRAM buffer	✓
H/W Write Protect	-
ATA Security	✓
S.M.A.R.T.	✓
Dimension (W $\times$ L $\times$ H)	22.0 X 42.0 X 3.5 mm
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -55°C ~ +95°C MTBF: 3 million hours

## Ordering Information

Operation Temp.	128GB	256GB	512GB
Standard Grade (0°C ~ +70°C)	DGM24-A28M71ECAQF	DGM24-B56M71ECAQF	DGM24-C12M71ECAQF
Industrial Grade (-40°C ~ +85°C)	DGM24-A28M71EWAQF	DGM24-B56M71EWAQF	DGM24-C12M71EWAQF