

Datasheet

# U.2 SSD 4TG2-P series

- PCIe Gen. 4x4, NVMe 1.4
- Excellent data transfer speed
- Heat-spreading design
- LDPC ECC engine supported.
- End-to-end Data Path Protection
- High capacity & ultra-speed
- 256-bit AES hardware-based encryption
- Support TCG Opal Function (Optional)



## Introduction

Innodisk U.2 SSD 4TG2-P is an NVM Express SSD designed as PCIe SFF-8639 module with PCIe interface and 3D TLC NAND Flash. U.2 SSD 4TG2-P supports PCIe Gen 4x4, and it is compliant with NVMe 1.4 providing excellent performance. With sophisticated error detection and correction (ECC) functions, the module can ensure full End-to-end Data Path Protection that secures the data transmission between host system and NAND Flash.

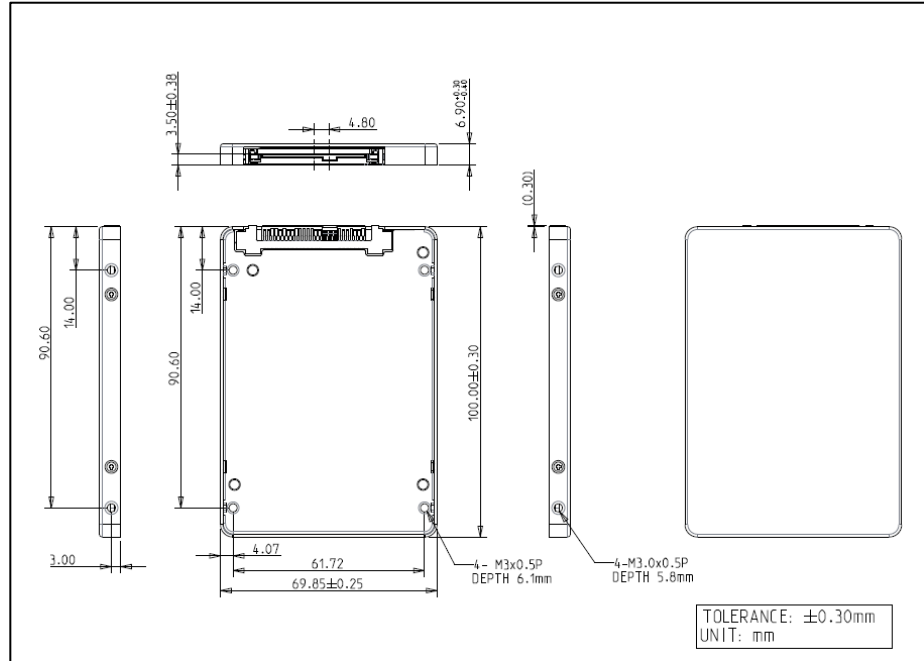
Innodisk U.2 SSD 4TG2-P provides ultra-speed and high IOPS and offers maximum capacity up to 16TB, making the SSD optimal for server and heavy data workload applications.

Innodisk U.2 SSD 4TG2-P is designed with AES engine, which is built-in the controller. When controller receives the data package from host, AES engine encrypts the data package and save the encrypted data into NAND flash. Thus, unauthorized personal has no access to decrypt the data in NAND flash.

# U.2 SSD

## 4TG2-P series

### Diagram



Contact us for more information about the U.2 SSD 4TG2-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](mailto:usasales@innodisk.com)  
+1-510-770-9421  
Europe  
[eusales@innodisk.com](mailto:eusales@innodisk.com)  
+31-40-3045-400  
Japan  
[jpsales@innodisk.com](mailto:jpsales@innodisk.com)  
+81-3-6667-0161  
China  
[sales\\_cn@innodisk.com](mailto:sales_cn@innodisk.com)  
+86-755-21673689  
[www.innodisk.com](http://www.innodisk.com)

© 2024 Innodisk Corporation.  
All right reserved. Specifications are subject to change without prior notice.

20240419

Interface	PCIe Gen. 4 x4
Flash Type	3D TLC
P/E cycle	3,000
Capacity	512GB~16TB
Max. Channels	8
Sequential R/W (MB/sec, max.)	6,950/4,950
Max. Power Consumption	13.5W
Thermal Sensor	√
External DRAM buffer	√
TCG Opal	√ (Optional)
iCell	NA
Dimension (WxLxH)	100.0 X 69.85 X 6.9 mm
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Working Temperature: ST 0°C ~ +70°C, ; WT -40°C ~ +85°C Storage Temperature: -40°C ~ +85°C MTBF: 3 million hours

### Ordering Information

Operation Temp.	512GB	1TB	2TB	4TB	8TB	16TB
Standard Grade (0°C ~ +70°C)	DGEU2-C12DP1KCAEF DGEU2-C12DP2KCAEF	DGEU2-01TDP1KCAEF DGEU2-01TDP2KCAEF	DGEU2-02TDP1KCAEF DGEU2-02TDP2KCAEF	DGEU2-04TDP1KCAEF DGEU2-04TDP2KCAEF	DGEU2-08TDP1KCAEF DGEU2-08TDP2KCAEF	DGEU2-16TDP1KCCEF DGEU2-16TDP2KCCEF
Industrial Grade (-40°C ~ +85°C)	DGEU2-C12DP1KWAEF DGEU2-C12DP2KWAEF	DGEU2-01TDP1KWAEF DGEU2-01TDP2KWAEF	DGEU2-02TDP1KWAEF DGEU2-02TDP2KWAEF	DGEU2-04TDP1KWAEF DGEU2-04TDP2KWAEF	DGEU2-08TDP1KWAEF DGEU2-08TDP2KWAEF	DGEU2-16TDP1KWCEF DGEU2-16TDP2KWCEF

For TCG OPAL function, the PN Code 10<sup>th</sup>~12<sup>th</sup> will be DP2.

**innodisk**

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