

Datasheet

# M.2 (P42) 4IE2 series

- PCIe Gen 4 x4, NVMe 1.4
- Ultra iSLC technology
- Excellent data transfer speed
- Heat-spreading design
- Thermal Throttling management
- Support iPower Guard & iData Guard.
- 256 bit AES hardware based encryption
- Support TCG OPAL function (optional)



## Introduction

Innodisk M.2 (P42) 4IE2 is a NVM Express DRAM-less SSD designed with PCIe interface and industrial 3D TLC NAND Flash. M.2 (P42) 4IE2 supports PCIe Gen 4 x4 and it is compliant with NVMe 1.4 providing excellent top and sustained performance. With sophisticated error detection and correction (ECC) functions, the module can provide full End-to-end Data Path Protection that secures the data transmission between the host system and NAND Flash.



**Contact us for more information about the M.2 (P42) 4IE2.**

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)

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**Specification**

Interface	PCIe Gen4 x4
Flash Type	iSLC (3D TLC)
P/E cycle	100,000
Capacity	40GB~640GB
Max. Channels	4
Sequential R/W (MB/s, Max)	3,450/2,850
Max. Power Consumption (RMS)	4.8W
Thermal Sensor	√
External DRAM buffer	N/A
H/W Write Protect	N/A
S.M.A.R.T	√
Dimension (WxLxH)	22.0 x 42.0 x 3.5 mm (ST) 25.0 x 42.0 x 14.5 mm (WT with heatsink)
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -40°C ~ +85°C MTBF: 3 million hours

**Ordering Information**

Operation Temp.	40GB	80GB	160GB	320GB	640GB
Standard Grade (0°C ~ +70°C)	DHM24-40GDF1KCADL	DHM24-80GDF1KCAQL	DHM24-A60DF1KCAQL	DHM24-D2GDF1KCAQL	DHM24-F4GDF1KCAQQ
Industrial Grade (-40°C ~ +85°C)	DHM24-40GDF1KWADLH	DHM24-80GDF1KWAQLH	DHM24-A60DF1KWAQLH	DHM24-D2GDF1KWAQLH	DHM24-F4GDF1KWAQQH

For TCG OPAL function, the PN Code 10th~12th will be DF2.

