

Embedded Storages with Innovative Technology



FIPS 140-2



- Applied on 2.5" SATA SSD, M.2 SATA, 2280 & PCIe M.2 2280.
- Security Label & Conformal Coating are implemented

Power Loss Protection (PLP)



Extra power to protect ALL data during power loss at write

S.M.A.R.T. (Self Monitoring and Analysis Reporting Technology)



Setting criteria for wearing message

Opal / AES (Security Encryption)



- Protect the confidentiality of stored user data against unauthorized access once it leaves the owner's control.
- Hardware Encryptions are applied on SATA interface & PCIe interface SSD.

Quick Erase



- Erase all data, tables and hidden area
- Hardware push button or Software GPIO control
- Erase All or Erase Data can be chosen

Conformal coating



A layer of plastic protection is applied on all PCBA products in order to protect from dirt, dust, moisture, corrosion, electrical conduction and thermal conduction

Wide-Temperature products



All the components are designed and tested under -40~85°C

Physically Destroy (PD)



By running a high voltage current through the module, damage the flash IC and ensure all data are completely destroyed.

MIL-STD



Comply with US military specification that guarantees a level of durability for unit.

Write-Protect or Read only



- Read Only
- Hardware Switch or Software GPIO Control

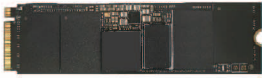
Automotive



AEC-Q100 & TS16949 are qualified for high reliability in car application

Flash Type





Capacity : Up to 4TB

PCIe Gen 4 x 4
M.2 2280

TLC

S.M.A.R.T



Capacity : Up to 16TB

PCIe Gen 3 x 4
2.5" (U.2)

TLC

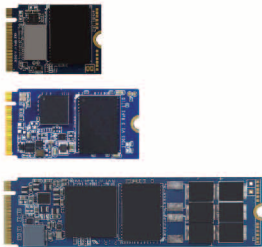
16TB



S.M.A.R.T



MIL STD



Capacity : Up to 4TB

PCIe Gen 3 x 4
M.2 2230/2242/2280

pSLC

TLC



S.M.A.R.T





Capacity : Up to 2TB

PCIe Gen 3 x 2 CF Express

pSLC TLC



Capacity : Up to 512GB



PCIe Gen 3 x 2 uSSD

TLC



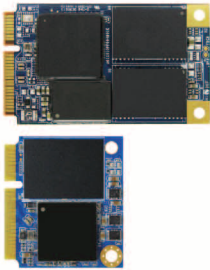
Capacity : Up to 16TB



1.8" SATA SSD 2.5" SATA SSD

SLC pSLC MLC TLC





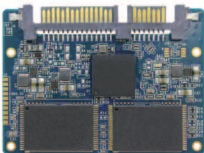
Capacity : Up to 2TB

mSATA mSATA mini

SLC pSLC MLC TLC



Capacity : Up to 1TB

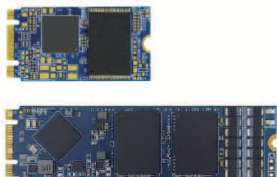


SATA Half Slim(MO-297)

SLC pSLC MLC TLC



Capacity : Up to 2TB



SATA M.2 2242/2280

SLC pSLC MLC TLC



Capacity : Up to 512GB



CFast

SLC pSLC MLC TLC



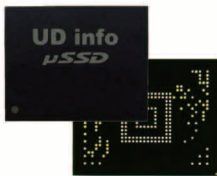


Capacity : Up to 512GB

SATA Module

SLC pSLC MLC TLC

S.M.A.R.T

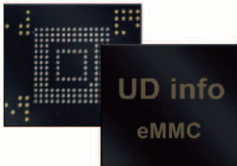


Capacity : Up to 512GB

SATA uSSD (MO-276)

pSLC MLC TLC

S.M.A.R.T



Capacity : Up to 128GB

eMMC

SLC pSLC MLC TLC



Capacity : Up to 512GB

SD Card Micro SD Card

SLC pSLC MLC TLC

S.M.A.R.T





Capacity : Up to 32GB

PCMCIA

SLC



Capacity : Up to 256GB

2.5" SATA SSD

SLC

MLC

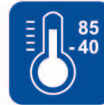


Capacity : Up to 256GB

CF Card

SLC

MLC



Capacity : Up to 8GB

IDE DOM

SLC





Capacity : Up to 64GB

USB DOM

SLC pSLC MLC

S.M.A.R.T

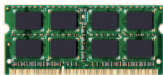


Capacity : Up to 512GB

USB 2.0 USB 3.0

SLC pSLC MLC TLC

S.M.A.R.T



Capacity : Up to 32GB

DRAM UDIMM/SODIMM

DDR1

DDR2

DDR3

DDR4

DDR5



pSLC Pseudo SLC (pSLC)

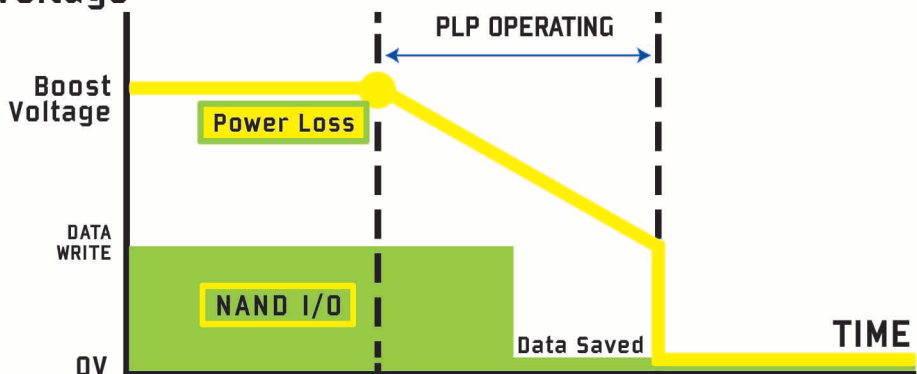
	NAND Types	Structures	Reliability (P/E Cycle)
2D	SLC		60K
	MLC		3K
	pSLC (Pseudo SLC)		30K
3D	TLC		3K
	pSLC (Pseudo SLC)		30K+

- pSLC is an Ideal Alternative Solution provides Reliability & Cost Efficiency, perfect for Heavy Write Application with Great Performance.
- Base on MLC or 3D TLC Flash to simulate SLC Performance.

Power Loss Protection (PLP)



Voltage



- Able to protect system and data
- Applied on PCIe U.2, PCIe M.2 2280, 2.5" SATA SSD, mSATA, M.2 SATA 2280 & CFast
- Available for SLC, MLC, 2D & 3D pSLC & 3D TLC Flash

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