

MPLP S530H Series

A DRAM-less industrial SATA SSD with Momentary Power Loss Protection (MPLP) — engineered for stable, uninterrupted operation in environments where the power supply is unstable.

Withstands momentary power dips (approx. 3 ms) without interrupting operation

DRAM-less design optimizes cost, power consumption, and mounting footprint

BiCS8 3D TLC NAND for long-term, stable supply

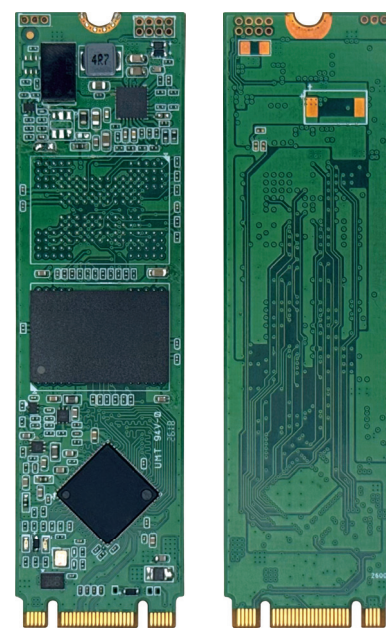
TLC & pSLC endurance modes, in M.2 2280 / CFast / 2.5-inch form factors

SATA
6Gb/s

DRAM-less

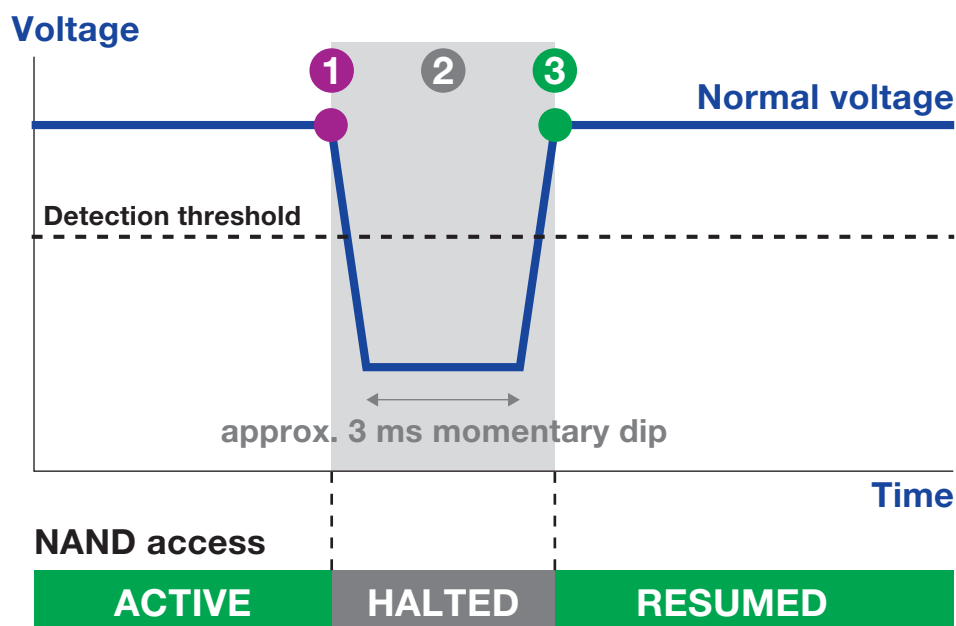
BiCS8
3D TLC

M.2 2280 /
CFast / 2.5-inch



M.2 2280 (product image)

MPLP — Momentary Power Loss Protection



1 Detect 🔍

Continuously monitors the supply voltage and detects a drop below the detection threshold.

2 Protect ⏻

Immediately halts access to the NAND flash to protect stored data during the voltage dip.

3 Recover ↺

Resumes host access the moment voltage recovers — typically within approx. 3 ms.

Stable, uninterrupted operation — even in unstable power environments.

General Specifications

Interface	SATA 6Gbps	Controller	DRAM-less
NAND flash	BiCS8 3D TLC	Form factors	M.2 2280 / CFast / 2.5-inch
MPLP	Momentary Power Loss Protection	Interface limit	≈ 600 MB/s

Specifications by Capacity

Capacity	Seq. Read(MB/s)	Seq. Write (MB/s) SLC Cache OFF	Active (W)	Idle (W)
TLC mode — high capacity / SLC Cache Disable				
128 GB	300	120	0.65	0.2
256 GB	530	210	0.65	0.2
512 GB	540	210	0.65	0.2
1024 GB	540	210	0.65	0.2
pSLC mode — high endurance				
40 GB	300	300	0.65	0.2
80 GB	530	520	0.65	0.2
160 GB	540	520	0.65	0.2
320 GB	540	520	0.65	0.2

CrystalDiskMark 8.0.4, 1 GiB (SEQ1M Q8T1). Sequential figures are best-case. Active power = heavy load (write); read approx. 0.6 W.
The figures shown are target specifications for a product currently under development. Actual performance may vary, and specifications are subject to change without notice.

Compliance & Certifications

CE	UKCA	FCC	VCCI	WEEE	EU CRA (planned)
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