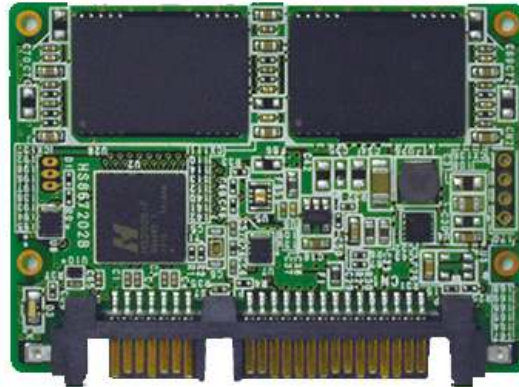
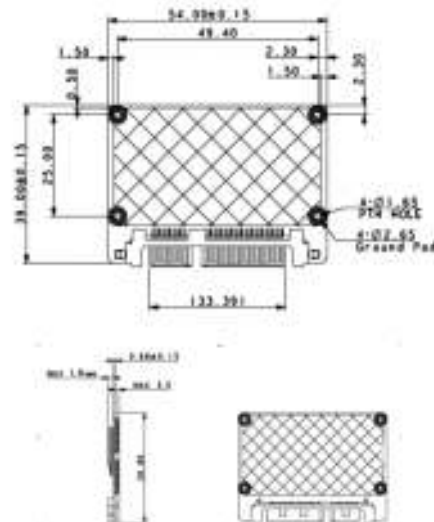


HalfSlim 3.0Gbps



Product features

- Native SATA2 Interface
- Capacity up to 128GB
- SLC & Q-MLC NAND
- Sudden Power Loss Protection
- Consistent Read/Write Performance
- Reliable across Wide-temp. ranges



	Static wear leveling	Refresh	Randomizer	Read Retry	Power loss guard	Off line scan	Fixed specifications	DevSleep	TCG Opal2.0	RoHS	Live
SATA 3.0Gbps XFD (Q-MLC)	●	●	●	●	●	●	●	●	●	●	●
SATA 3.0Gbps HFD (SLC)	●	●	●	●	●	●	●	●	●	●	●

Static wear leveling
 Refresh
 Randomizer
 Read Retry
 Power loss guard
 Off line scan
 Fixed specifications
 DevSleep
 TCG Opal2.0
 ATA Security
 FDE(Encryption)
 Cryptosense
 Lifetime Notification
 LifetimeLED
 RoHS
 LiveMonitor

Product Specifications

Flash Type		Q-MLC	SLC
Capacity		4GB ~ 128GB	32GB & 64GB
Temperature	0 ~ 70°C	Yes	Yes
	-25 ~ 85°C	-	-
	-40 ~ 85°C	-	Yes
Interface		SATA 3.0Gbps	
Power Supply Voltage		5V +/- 10%	
Dimensions (mm)		39.0 x 54.0 x 4.45 (JEDEC-MO297)	
Performance	4GB	R: 140MB/s, W: 40MB/s	-
	8GB	R: 150MB/s, W: 70MB/s	-
	16GB	R: 160MB/s, W: 90MB/s	-
	32GB	R: 200MB/s, W: 140MB/s	R: 200MB/s, W: 150MB/s
	64GB	R: 200MB/s, W: 140MB/s	R: 200MB/s, W: 150MB/s
	128GB	R: 200MB/s, W: 150MB/s	-

Part Number

		4GB	8GB	16GB	32GB	64GB	128GB
SLC	0 ~ 70°C	-	-	-	HFDHSS-032Gx (xxxAE)	HFDHSS-064Gx (xxxAE)	-
	-40 ~ 85°C	-	-	-	HFDHSS-032Gx (xxxAEI)	HFDHSS-064Gx (xxxAEI)	-
Q-MLC	0 ~ 70°C	XFDHSS-004Gx (xxxAG)	XFDHSS-008Gx (xxxAG)	XFDHSS-016Gx (xxxAG)	XFDHSS-032Gx (xxxAG)	XFDHSS-064Gx (xxxAG)	XFDHSS-128Gx (xxxAG)
	-25 ~ 85°C	-	-	-	-	-	-

SLC/Q-MLC/MLC comparison

	SLC	Q-MLC	MLC (not available)
bit/cell	1bit/cell	1bit/cell (MLC)	2bit/cell
Endurance (PE Cycle)	60,000	20,000	2000
Data Retention (<10% PE Cycle)	10 year	5 year	5 year
Designed for	Highest Reliability and Longevity in extreme condition	High Reliability and Performance	High Performance with affordable cost
Cost	\$\$\$	\$\$	\$

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