

2.5-inch PATA SSD

LFD25P-GD / XFD25P-GD / HFD25P-GD Series

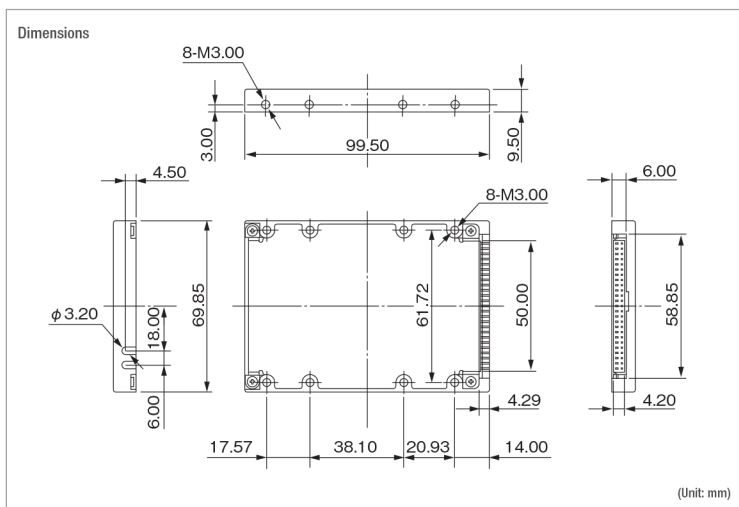


Flash Memory		MLC	Q-MLC	SLC
Capacity		30 GB to 240 GB	15 GB to 120 GB	15 GB to 120 GB
Host Interface		Parallel ATA [Ultra ATA/66]		
Data Transfer Mode		PIO mode0-4 / Multiword DMA mode 0-2 / Ultra DMA mode 0-5		
Operating Voltage		5.0V±10%		
Operating Temperature	Commercial Temperature	0°C to 70°C		
	Wide Temperature	-25°C to 85°C		-40°C to 85°C
Storage Temperature		-45°C to 90°C		
Operating Humidity		~ 85% (No Condensation)		
Storage Humidity		~ 95% (No Condensation)		
Dimensions (mm)		69.85 x 99.5 x 9.5		
DRAM Cache		●	●	●
Performance	Sequential Read (MB/s)	75	70	80
	Sequential Write (MB/s)	75	75	60
	Random Read (IOPS)	4,500	5,000	5,500
	Random Write (IOPS)	7,500	7,500	9,000
Power Consumption (mA)	Read (max.)	200	185	235
	Write (max.)	260	200	230
	Idle	115	115	125
Warranty		1 year		



Flash Memory	Static Wear Leveling	Refresh	Patrol	Read Retry	Power Loss Alert	Fixed BOM	TCG Opal 2.0	S.M.A.R.T.	Life Indicator LED	Dev/Sleep	Wide Temperature	Power Loss Recovery	Live Drive Monitor	Live Drive Monitor	Thermal Sensor	RoHS	AIS
MLC	●	●	-	●	-	●	-	-	-	-	○	●	●	●	●	●	●
Q-MLC	●	●	-	●	-	●	-	-	-	-	○	●	●	●	●	●	●
SLC	●	●	-	●	-	●	-	-	-	-	○	●	●	●	●	●	●

Static Wear Leveling
 Refresh
 Patrol Function
 Read Retry
 Power Loss Alert
 Fixed BOM
 TCG Opal 2.0
 S.M.A.R.T.
 Life Indicator LED
 Dev/Sleep
 Wide Temperature
 Power Loss Recovery
 Live Drive Monitor
 Live Drive Monitor
 Thermal Sensor
 RoHS Compliant
 Article Information Sheet
 ● Default ○ Optional



Part Number	MLC	Q-MLC	SLC
Operating Temperature	MLC	Q-MLC	SLC
0°C to 70°C	LFD25P-xxxGD (A**AH)	XFD25P-xxxGD (A**AH)	HFD25P-xxxGD (A**AE)
-25°C to 85°C	LFD25P-xxxGD (A**AHS)	XFD25P-xxxGD (A**AHS)	-
-40°C to 85°C	-	-	HFD25P-xxxGD (A**AEI)

Refresh

Prevents read errors from occurring by reallocating the data from the block with reduced data retention.

As raw NAND flash bit error rate increases, it becomes more imperative to monitor the condition of flash blocks to avoid irreversible errors from occurring. The refresh function seeks for the flash block with reduced data retention and reallocates the data to a new location proactively.

Page: User Area (blue), Redundant Area (pink), Error Correction Code (ECC)

Page: Data Error (red arrow), Read (blue arrow), Data corrected by ECC (blue arrow)

Page: Refresh (Corrected data copied) (blue arrow)