



mSATA 3IE7

HIGHLIGHT FEATURES

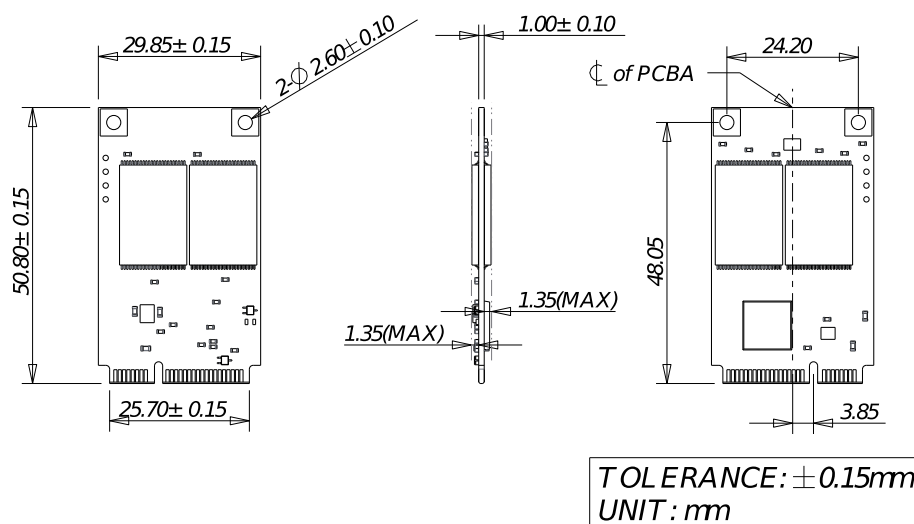
- Up to 100K P/E cycle, extending the lifespan by 33x
- Equipped with 112-layer 3D TLC NAND Flash
- Utilizes Ultra iSLC Technology
- Supports temperatures -40°C to 85°C
- 5-year warranty

SPECIFICATIONS

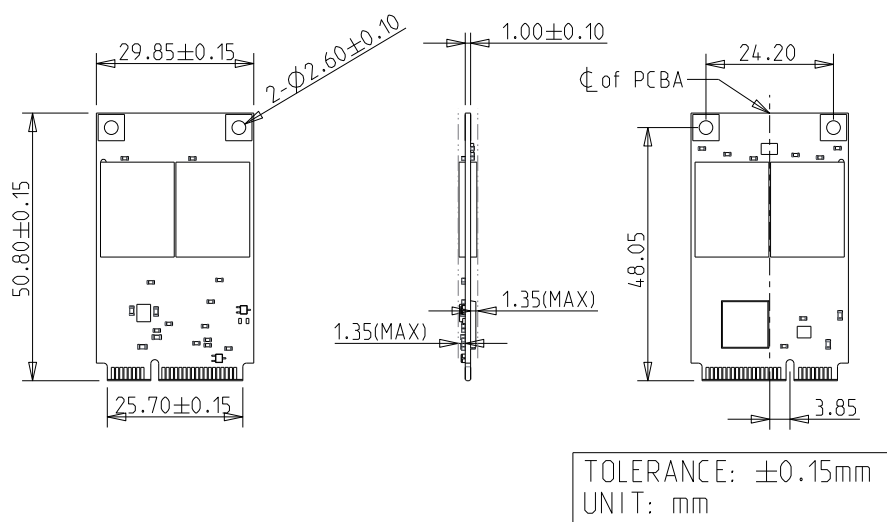
Model Name	mSATA 3IE7
Flash Type	iSLC (3D TLC)
Interface	SATA III 6.0 Gb/s
Form Factor	MO-300
Capacity	20GB ~ 640GB
Sequential R / W (MB/sec, max.)	560 / 500
P/E Cycle	30,000 / 100,000
TBW (Max.)	40,000
Storage Temperature	-40°C ~ 85°C
Max. Power Consumption	1.6W
Max. Channels	4
External DRAM Buffer	N
H/W Write Protect	Y (Optional)
S.M.A.R.T.	Y
AES	Y (Optional)
TCG Opal	N
Dimension (W x L x H/mm)	29.85 x 50.8 x 3.7
Vibration	20G@[7 ~ 2000Hz]
Shock	1500G@0.5ms
MTBF	>3 million hours
Warranty	5 Years

DIAGRAM

TSOP



BGA



ORDER INFO.

Operating Temperature	Standard Grade ($0^{\circ}\text{C} \sim 70^{\circ}\text{C}$)	Industrial Grade ($-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$)
20GB	DHMSR-20GDK1EC1DF	DHMSR-20GDK1EW1DF
40GB	DHMSR-40GDK1%C*&F	DHMSR-40GDK1%W*&F
80GB	DHMSR-80GDK1%C*QF	DHMSR-80GDK1%W*QF
160GB	DHMSR-A60DK1%C*QF	DHMSR-A60DK1%W*QF
320GB	DHMSR-D2GDK1%CAQF	DHMSR-D2GDK1%WAQF
640GB	DHMSR-F4GDK1%CAQF	DHMSR-F4GDK1%WAQF

%: E : 64 layers 3D TLC / K : 112 layers 3D TLC

*: PCB version control

&. S : 1 channel / D : 2 channels / Q : 4 channels

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