

mSATA (3D NAND)

SATA 6.0Gbps
SNMS-GP / RNMS-GP / HNMS-GP Series



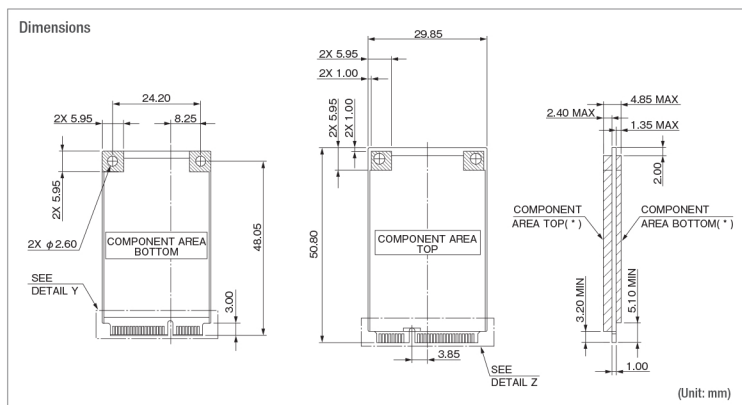
Flash Memory		TLC	MLC mode	SLC mode
Capacity		60 GB to 240 GB	40 GB to 320 GB	20 GB to 160 GB
Host Interface		SATA 6.0Gbps		
Operating Voltage		3.3V±5%		
Operating Temperature	Commercial Temperature	0°C to 70°C		
	Wide Temperature	-40°C to 85°C		
Storage Temperature		-45°C to 90°C		
Operating Humidity		~ 85% (No Condensation)		
Storage Humidity		~ 95% (No Condensation)		
Dimensions (mm)		29.85 x 50.8 x 4.0		
DRAM Cache		●	●	●
Performance	Sequential Read (MB/s)	495	495	495
	Sequential Write (MB/s)	280	430	430
	Random Read (IOPS)	51,000	53,000	57,000
	Random Write (IOPS)	48,000	46,000	51,000
TBW*	20GB	-	-	580
	40GB	-	110	1,160
	60GB	45	-	-
	80GB	-	230	2,380
	120GB	90	-	-
	160GB	-	480	4,860
	240GB	180	-	-
	320GB	-	1,000	-
Power Consumption (mA)	Read (max.)	420	320	310
	Write (max.)	545	585	415
	Idle	155	120	125
	DevSleep	3	3	3
Warranty		1 year		

*TBW is based on JEDEC 219 Client workload.



Feature	TLC	MLC mode	SLC mode
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	●	●	●
DevSleep	●	●	●
Wide Temperature	●	●	●
Power Loss Recovery	●	●	●
Live Drive Monitor	●	●	●
Live Drive Monitor	●	●	●
Thermal Sensor	●	●	●
RoHS	●	●	●
A15	●	●	●

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
 DevSleep
 Wide Temperature
 Power Loss Recovery
 Live Drive Monitor
 Live Drive Monitor
 Thermal Sensor
 RoHS Compliant
 Article Information Sheet



Operating Temperature	TLC	MLC mode	SLC mode
0°C to 70°C	SNMS-xxxGP00SN	RNMS-xxxGP00SN	HNMS-xxxGP00SN
-40°C to 85°C	SNMS-xxxGP00JI	RNMS-xxxGP00JI	HNMS-xxxGP00JI