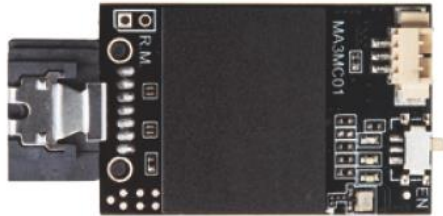
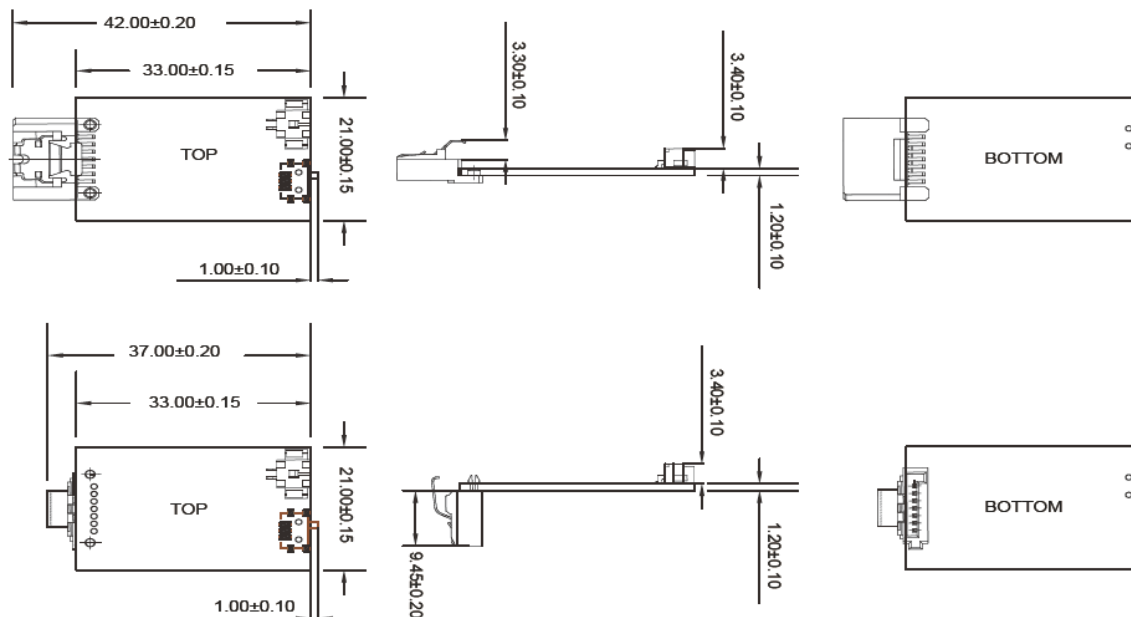


SATA module Series



The MemxPro SATA Module series are a miniature yet powerful design with controller, flash and DRAM on a single chip. The design boasts best-in-class transmission quality, speeds and reliability. Easy plug & play installation for fast access, its small footprint is ideal for space-limited embedded systems and mobile applications.

- Compliant with JEDEC MO-300A specification.
- SATA III interface running at up to 6Gb/s.
- SLC/StrongMLC/MLC versions in standard, extended, and industrial grade temperature ranges.
- Global wear leveling, bad block management with built-in ECC, and optional security features.
- SMARTPro device monitoring tool or SDK library support.



Product Model	SATA Module M3C		SATA Module G3D	
	SATA III	SATA III	SATA III	SATA III
Interface	SATA III	SATA III	SATA III	SATA III
Form Factor	7pin (90°)	7pin (180°)	7pin (90°)	7pin (180°)
Flash Type	MLC	MLC	StrongMLC	StrongMLC
Max. Channel	4	4	4	4
Density	16GB~128GB	16GB~128GB	8GB~64GB	8GB~64GB
Sequential R/W (MB/sec, max.)	520/190	520/190	520/380	520/380
Random R/W (MB/sec, max.)	280/185	280/185	290/280	290/280
Operating Temperature	0°C~+70°C/-25°C~+85°C	0°C~+70°C/-25°C~+85°C	0°C~+70°C/-25°C~+85°C	0°C~+70°C/-25°C~+85°C
Max. Power Consumption	1.66W (5Vx332mA)	1.66W (5Vx332mA)	1.66W (5Vx332mA)	1.66W (5Vx332mA)
Standard Function	Write Protect	Write Protect	Write Protect	Write Protect
Optional Function	Quick Erase/Secure Erase	Quick Erase/Secure Erase	Quick Erase/Secure Erase	Quick Erase/Secure Erase
Dimension (LxWxH/mm)	33x21x14.1	42.2x21x6.3	33x21x14.1	42.2x21x6.3
Operating Voltage	5V±10%	5V±10%	5V±10%	5V±10%
Storage Temperature	-55°C~+85°C	-55°C~+85°C	-55°C~+85°C	-55°C~+85°C
External DRAM Buffer	N/A	N/A	N/A	N/A
Thermal Sensor	V	V	V	V
DEVSLP Mode	N/A	N/A	N/A	N/A
ATA Security	V	V	V	V
S.M.A.R.T.	V	V	V	V
TRIM	V	V	V	V
Vibration	20G	20G	20G	20G
Shock Resistance	1000G@1ms	1000G@1ms	1000G@1ms	1000G@1ms
MTBF	3 million hours	3 million hours	3 million hours	3 million hours

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