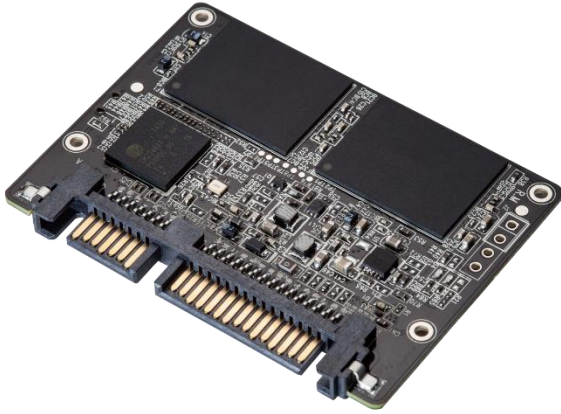# MemxPro Half Slim SATA EB31 Series
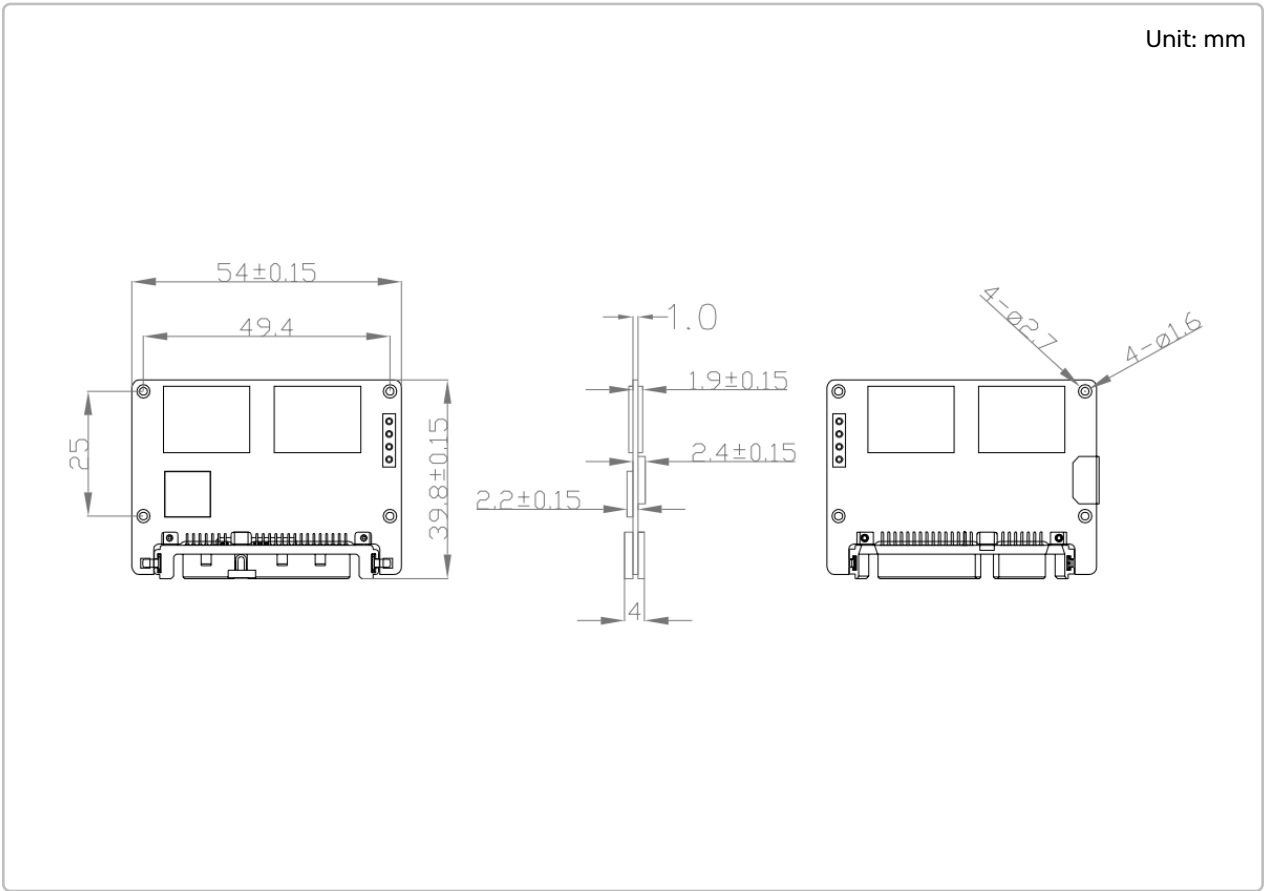## SLC like, 20K+ P/E cycles

Features

- SATA III, compliant with JEDEC MO-297
- StrongMLC, DRAM-less, up to 128GB capacity
- Commercial/extended/wide temp. solutions
- Built-in ECC and OCP/OVP
- NCQ/TRIM/SMART support
- mSMART storage device monitoring

Specification

Product Model	Half Slim SATA EB31
Interface	SATA III
Form Factor	Half Slim SATA (MO297)
Flash Type	StrongMLC
P/E Cycle	20,000 times
Max. Channel	4
Density	32GB~128GB
Sequential R/W (MB/sec, max.)	514/421
Operating Temperature	0°C~+70°C/-25°C~+85°C/-40°C~+85°C
Max. Power Consumption	2.75W (5V 550mA)
Dimension (L x W x H/mm)	39.8x54x4
Operating Voltage	5V±10%
Storage Temperature	-55°C~+95°C
External DRAM Buffer	N/A
Thermal Sensor	✓
DEVSLP Mode	< 5mW
ATA Security	✓
S.M.A.R.T.	✓
TRIM	✓
Vibration	20G (7~2KHz)
Shock Resistance	1500G@0.5ms
MTBF	>3 million hours

Dimensions

Unit: mm

Ordering Information

Capacity	Commercial (0°C~70°C)	Extended (-25°C~85°C)	Industrial (-40°C~+85°C)
32GB	FEHSS-32GTBS4X2C2	FEHSS-32GTBS4X2E2	FEHSS-32GTBS4X2W2
64GB	FEHSS-64GTBS4X4C2	FEHSS-64GTBS4X4E2	FEHSS-64GTBS4X4W2
128GB	FEHSS-A2GTBS4X4C2	FEHSS-A2GTBS4X4E2	FEHSS-A2GTBS4X4W2

StrongMLC/StrongTLC

Specific firmware technology enables high-quality MLC/TLC to perform SLC mode. Benefits: (1) boosts performance & endurance (2) budget friendly compare to SLC.

0	00	000 001	0000 0001 0010 0011
	01	010 011	0100 0101 0110 0111
1	10	100 101	1000 1001 1010 1011
	11	110 111	1100 1101 1110 1111

Flash type	SLC/SMLC/STLC	MLC	TLC	QLC
P/E cycle	Industrial: 60~100K StrongMLC: 20K StrongTLC: 40K	Industrial: 3K	Consumer: 500~1.5K Industrial: 3K & 10K	Consumer: 500 ~ 1K
Bit	1	2	3	4
Write Speed	▶▶▶▶▶	▶▶▶▷▷	▶▶▷▷▷	▶▷▷▷▷
Durability	▲▲▲▲▲	▲▲▲△△	▲▲△△△	▲△△△△
Price	SLC: $$$$$$ SMLC/STLC: $$$$	$$$	$$	$

MEMXPRO
Make it Possible