Mtron SSD
XTM 7500 Series

Model	Interface	Form Factor	Capacity
XTM-PATA7525	ATA-7	2.5-inch	32GB / 64GB / 128GB

Features

- SLC NAND flash memory
- Static and dynamic wear-leveling algorithm
- Bad block management algorithm
- BCH 7bits ECC on-the-fly support
- S.M.A.R.T compliant
- Low power consumption
- RoHS compliant for environmental friendly

Performance

Host Transfer Rate	150 MB/s
Maximum Sustained Read Rate	130 MB/s
Maximum Sustained Write Rate	120 MB/s
Maximum IOPS	48,000
*Sequential write @ 512 unit	
Access Time	0.1 ms

Reliability

MTBF	1,000,000 hours
Non-recoverable Read Error	1 bit in 10^{15} bits
Endurance	
Write	>140 years (@50GB write/day)
Read	unlimited
Data retention	10 years
Warranty	3 years

Environmental Specifications

Temperature[2]	
Operating	-40 ~ 85 ℃
Non-operating	-55 ~ 95 ℃
Shock[2]	1500G Half sine, 0.5ms
Vibration[2]	16.32G rms, 10~2000Hz
Humidity[2]	5 ~ 95 %, Condensing
Altitude[2]	80,000ft
Conformal Coating	Default
Under Fill	Default
Secure Erase	Support

Electric Specifications

Supply Voltage	5.0V±5%
Power Consumption	
Idle	0.64W
Sustained read	1.40W
Sustained write	3.08W

Physical Specifications

Height	9.5 ±0.25 mm
Width	69.8 ±0.20 mm
Length	100.2 ±0.25 mm
Maximum Weight	TBD

Note:
1. @ 32GB capacity
2. Based on MIL-STD-810F

Preliminary