PACIFIC SUN MEMORY ®

2.5inch 128GB SATA3 SSD – DATASHEET

PART# PSM-128GBSATA3SSD2.5

UPC: 819555012938

Based spec
Control chip SM2258XT
Interface SATAIII
Capacity 128GB
Flash type 3D TLC NAND Flash

Read/Write
Performance
Sequential Read 510MB/s
Sequential Write 420MB/s
4KB Random Read IOPS 70000
4KB Random Write IOPS 3000

Power Consumption
Power Supply 5V+5%
Standby 0.3W
Maximum Ripple 70 mV(peak to peak)
4KB Random Write 2.5W

Reliability
Write endurance: 8 years @ 100G write/day(32G)
Read endurance: unlimited
MTBF: >2,000,000 hours
Data retention: >20years @ 25°C
Data destroy support no
Sudden power-off recovery support yes
NCQ support yes
Trim support yes
Dynamic power management support yes

SMART support yes
ECC: Supports BCH ECC 12/14/40 bits in 1024 bytes
Static and dynamic wear-leveling
Bad block management algorithm

Environment
Storage temperature: -55~95 °C
Operation temperature: -0~55°C
Humidity: 5%~95%
Vibration 15G (10 to 2000Hz)
Shock 350G at 0.5ms

Certification CE,ROHS,FCC,TUV
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Testing platform
CPU: Intel® Core(TM) i5-2400 CPU @ 3.10GHz
Chipset: Intel® Z68 Express Chipset
Memory: Kingston KHX1600C9D3C1K2/4GX
OS: Microsoft Windows 7 Professional 64-bit
AHCI Driver: Server Express Chipset SATA AHCI Controller
BIOS Settings: AHCI Mode

Testing software
Crystal Disk Mark 3.0
HD Tune Pro 3.5
ATTO Disk Benchmark
Iometer2008 AS_SSD Benchmark

Physical Size 100*70*9.5mm
Weight 80g
Warranty 2 years

Call Customer Support for more details:

PACIFIC SUN MEMORY

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