- Creating Tomorrow's Memories

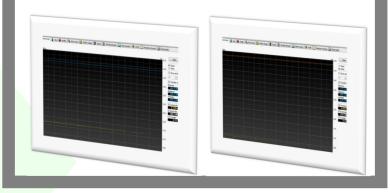
2.5" SATA3 High Capacity
Up to 16000GB
pSLC MLC & TLC Flash Disk



Product Overview

The Photon series presents SATA3 interfaces in a standard 2.5" Form Factor pSLC and MLC Flash Drive. Asine AS25_HCF flash drive delivers performance and proven reliability for data and mission critical systems. Added benefits of flexibility are built into Asine's AS25_HCF storage systems, including easy field firmware upgrades and expandable storage capacity as flash disk capacities increase. The AS25_HCF drives support OEM application specific features such as AES-256 bit hardware encryption, fast sanitize erase, high grade industrial certified metal & workmanship, and more. Product is compliant to JGPSSI-JIG, REACH, and RoHS.











Applications

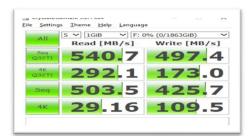
- Industrial & Commercial PC / Tablet Systems
- JBOD, NAS, SAN, RAID
- Data warhouse
- Security, HLS-Home Land Security
- ATM, Gaming, Lottery
- Automotive, Navigation, Infotainment, ECU
- Point Of Sale- POS / Kiosk, Smart Terminals
- Medical
- Industrial & Airborne Systems
- Rugged Computer
- High-Speed Data Recording
- Video Surveillance, JPEG2000 Capture
- Factory Automation

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Features

- Highest quality MLC & pSLC Flash technology
- 1000GB to 16,000GB MLC; for pSLC & TLC up to 8,000GB of non-volatile (per model) Flash memory in a 2.5" form factor
- SATA1, SATA2 & SATA3 interfaces. Protocol SATA 3.1 AHCI
- Security Optional: AES256; Secure Erase support, OPAL
- All modes to PIO3,4 & to UDMA5 of SATA interface, ATA8 standard compliance
- Fast sanitize erase for entire media (few seconds typical) capacity dependent
- Operating temperature Commercial 0°C to +70°C and Industrial -40°C to +85°C
- Storage temperature -50°C to +95°C
- Humidity 5% to 95% relative, non-condensing
- Altitude operating -1000 ft. to 70,000 ft.
- High data transfer rate: ≥ 500 MB/Sec Sustained Read or Write (capacity, technology & file system dependent)
- IOPS 4KB up to 80K random Read & 70K Write (overall capacity dependent)
- Reliability MTBF 2,000,000 hours based on Telcordia
 - Embedded EDC/ECC. Bad Block Mapping and Management
 - Built-in power-up self test and automatic self-diagnostics
 - Wear-Leveling Algorithm: Dynamic & Static wear leveling
 - PLP Power lost Protection SPOR
- Power: 2.7 W @ 1000GB. 0.8 W on Idle; TLC max 3.9 W.1.6 W on Idle
- TBW up to 640 overall with 8TB of TLC SSD
- TBW up to 1000 overall with 4TB of MLC SSD, up to 2000 for 8TB SSD
- TBW up to 17,000 overall with 1TB of pSLC SSD 128K sequential workload
- No special drivers uses existing Windows, Linux, VxWorks®, and SATA drivers
- Standard, Industrial, and pSLC models
- SSD unit sustain environmental
 - Shock (operating and non-operating) 1,000 G/0.5ms
 - Vibration Operating: 2.17 GRMS (5-700 Hz)
 - Non-Operating: 3.13 GRMS (5-800 Hz)

The AS25-SATA3_HCF is a top reliable high performance mass storage Solid-State Disk with no moving parts, ideal to meet the reliability requirements for high quality storage, data store, video and audio servers, as well as broadcasting systems and general computing. The AS25_HCF drives are designed to withstand long life true full capacity, while operating without compromising data integrity.



Dimensions:

100.2 L X 70 W X H

H= 7 mm. 9.5 mm at 8TB MLC/4TB pSLC

Weight: 80 gr. typ.

Ordering Information: P/N Structure: AS25-[SATA3]-[cap][t][c][f][h][m] Remark: Consult factory for allowable P/N's combinations

<i>P/N Prefix</i> AS25-SATA3 SATA3 I/F	Capacity C/E/Z,H @M option 1000	t C 0°C to +70°C E -25°C to +75°C Z -40°C to +85°C	<i>C</i> D Conduction Cool	f F Conformal Coating		H/W Sanitize Erase and WP	m SP M T	pSLC MLC TLC
Note:	C/Z/,H @SP option 1000 1000 GB 2000 2000 GB 4000 4000 GB 8000 8000 GB		Ordering Ev	vamnler				
Net capacity depends on Operating System	C @T option 2000 2000 GB 4000 4000 GB 8000 8000 GB		AS25-SATA3	Ordering Example: AS25-SATA3-4000-ZM is a 2.5" SSD with 4000GB MLC Flash, SATA3, operating at -40°C to +85°C			Flash,	