

FLASH-on-LAN Fast Flash Disk Module

PRELIMINARY

ASFON65x

Product Overview

The ASFON65x is an innovative Asine *Photon series* Fast Flash LAN Disk. It plugs into 10/100/1000Mb/Sec Ethernet and performs as a network drive. The ASFON65x enables fast and reliable read and write connectivity via any Ethernet access. The ASFON65x introduces a SAN (Storage Area Network) disk and not sensitive to operating system type. It also supports operating-environments such as Windows, Unix, Linux, and RT kernels.

Asine *Photon series* flash drives delivers performance and proven reliability for data and mission critical systems. Added benefits of flexibility are built into Asine's storage systems, including easy field firmware upgrades and expandable storage capacity as flash disk capacities increase. The drives support OEM application specific features such as **conformal coating** per **MIL** and other standards, **AES-256 bit hardware encryption**, **fast sanitize erase**, **high grade Industrial** certified metal & workmanship. Optional: **conduction cool** so no need for air flow, configuration freeze, and more. Long term product life cycle support.

The ASFON65x carries a one year warranty.



Illustration

Applications

- Military & Airborne Systems
- Rugged Storage, Military Tactical Recorder
- High-Speed Flight Data Recording
- Cockpit Voice & Data Recording, MIL 1553 / Arinc Monitoring
- Video Surveillance, Video/JPEG2000 Capture
- Telecommunications
- Factory Automation
- Automotive
- Testing Instrumentation
- Mission-Critical Applications
- JBOD, NAS, SAN, RAID
- Data Acquisition Systems



Features

- 30 to 500 Gbytes of non-volatile Flash Disk via Ethernet access
- 10/100/1000Mb/Sec network model
- High data transfer rate – up to 90MB/Sec R/W Burst & Sustained (network speed dependent)
- Write Protect input H/W signal
- **Fast sanitize erase** - up to 60 sec entire media (typical)
- **Reliability - MTBF - 1,000,000 hours MIL-HDBK271F**
 - Embedded EDC/ECC, support up to 64-bit BCH Algorithm for Error Correction Code. Bad Block Mapping and Management
 - Built-in power-up self test and automatic self-diagnostics
 - Wear-Leveling Algorithm: Dynamic & Static wear leveling
- Power: +5V operated. 6-14 W power dissipation (capacity dependent). 4 W on Idle
- 1,000,000 Write/Erase cycles at SLC; Read unlimited
- Up to 2PB SLC overall Write/Erase cycles with 500GB of SLC technology SSD;
- Operating temperature – Commercial 0°C to +70°C and Industrial -40°C to +85°C
- Storage temperature -55°C to +95°C
- Humidity 5% to 95% relative, non-condensing
- Altitude (operating & non-operating) 0 to 70,000 feet
- Conduction cooled option for harsh and rugged applications
- Conformal coating – optional
- SSD unit MIL-STD 810F Compliant
 - Shock - Half Sine, 50G, 11ms; Half Sine, 1500G, 0.5ms
 - Vibration - 16.3G RMS (Random, 20Hz to 2000 Hz, 3 axes)
- No special drivers - uses existing Windows, Linux network file systems protocols: (CIFS, SMB, FTP, Unix-NFS)
- Heat dissipation balancing for demanding applications

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The ASFON65x takes advantage of the Asine *Photon series* Fast Flash technology - a top reliable high performance mass storage Solid State Disk based on Flash technology. The product is designed to withstand extreme shocks, vibrations and harsh environmental conditions, while operating without compromising on data integrity.



Dimensions:

146.1 L X 101.5 W X 25 *H mm (*max)

Weight:

300 gr. max.

Ordering Information: P/N Structure: ASFON[65x]-[cap][t][c][f][h][m]

P/N Prefix	Capacity	t	c	f	h	m
ASFON65x	0030 30 GB	C 0°C to 70°C	D Conduction & Convection Cool	F Conformal Coating	W S/W Sanitize Erase	S SLC Flash
1 10/100 Lan	0060 60 GB	Z -40°C to 85°C**				M MLC Flash
2 10/100/1000 Lan	0120 120 GB					
	0240 240 GB					
	0500 *500 GB					

Additional Options:

- Made in the USA (for F M F) *MLC only
- Made In India Net capacity dependent on operating system
- **Customization available**

Ordering Example:

ASFON651-0240-ZDFM is an Flash-On-Lan 10/100 Ethernet Speed, Conduction Cool 240GB MLC, operating at -40°C to 85°C with conformal coating.