FLASH-on-LAN
Fast Flash Disk Module

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.

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

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:

<table>
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<tr>
<th>P/N Prefix</th>
<th>Capacity</th>
<th>t°C C 0°C to 70°C</th>
<th>c°C -40°C to 85°C**</th>
<th>f Conduction &amp; Convection Cool</th>
<th>h Conformal Coating</th>
<th>m S/W Sanitize Erase</th>
<th>s SLC Flash Memory</th>
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<td>ASFON65x</td>
<td>0030 30GB</td>
<td>Z 0°C to 70°C</td>
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Additional Options:
- Made in the USA
  - for F M F
  - Made In India
    - For Offset
  - Customization available
    - *MLC only
    - Net capacity dependent on operating system

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.

The information contained in this document is subject to change without notice