

3.5", SCSI320  
Flash Disk Module

AS-SCSI320

Product Overview

The *Photon series* AS-SCSI320 is 3.5" SCSI320 interface Flash Disk. Asine AS-SCSI320 flash drive delivers performance and proven reliability for data and mission critical systems. Added benefits of flexibility are built into Asine's SCSI storage systems, including easy expandable storage capacity as flash disk capacities increase. The AS-SCSI320 supports OEM application specific features such as LVDS signaling, conformal coating, self termination, TERM Power, and more.

The AS-SCSI320 carries a 1 year warranty.



Applications

- Industrial & Commercial PC / Tablet Systems
- JBOD, NAS, SAN, RAID
- Data warehouse
- 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



## Features

- 16 GB to 500 GB of non-volatile Flash memory in a 3.5" form factor
- SLC or MLC flash technology
- **Sanitize** – Optional - Compliance to NISTSP800-88, NSA-CSS 9-12, DoD 5220.22-M / NISPOM. 60 sec entire media (typical) capacity dependent
- High data transfer rate: Up to 320MB/Sec Burst R/W, 60MB/Sec Sustained Read/ Write
- Operating temperature – Commercial 0°C to +70°C and Industrial -40°C to +85°C (no start at -40°)
- Storage temperature -55°C to +95°C
- Humidity 5% to 95% relative, non-condensing
- Altitude (operating & non-operating) 0 to 80,000 feet
- Latency - Less than 100 µsec
- Reliability - MTBF - 2,000,000 hours MIL-HDBK271F
  - Embedded EDC/ECC, based on 48-bit Reed Solomon Algorithm
  - Built-in power-up self test
  - Manual and automatic self-diagnostics
  - Bad Block Mapping out algorithms
  - Dynamic wear leveling
- Up to 7 W power dissipation (depending on capacity)
- 3,000,000 Write/Erase cycles; Read unlimited
- ANSI SCSI-2, SCSI-3 and SCSI320 Standard Protocols
- Interface – P68 & Power combo connector. Optional: 50 Pin SCSI connector
- No special drivers - uses existing Windows, Linux, VxWorks®, and SCSI drivers
- Long term product lifecycle support
- Conformal coating – **optional** compliance to Space, Military, and Medical applications
- 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 vibrations axes)
- Warranty - 1 Year

The AS-SCSI320 is a top reliable high performance mass storage Solid-State Disk with no moving parts, ideal to meet the reliability requirements for defense, aerospace, video and audio servers, as well as broadcasting systems. The AS-SCSI320 is designed to withstand extreme shocks, vibrations and harsh environmental conditions, while operating without compromising on

### Physical dimensions:

146.1 L X 101.5 W X 25 \*H mm

\*H - High is specified as max value

### Ordering Information: P/N AS-SCSI320-[cap] [t] [f] [m]

P/N	Capacity	t	f	c	m
AS-SCSI320	0016 16 GB	C 0°C to 70°C	F Conformal Coating	- NA	S SLC
	0030 30 GB	Z -40°C to 85°C			Flash
	0060 60 GB				M MLC
<u>Additional Option:</u>	0120 120 GB				Flash
	0240 *240 GB				
	0500 *500 GB				

- Customization available

\* MLC only

### Ordering Example:

AS-SCSI320-0120-CFS is an SLC Flash 120 GB SCSI320, operating at 0°C to 70°C with conformal coating.

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