

CompactPCI 6U
Fast Flash Disk Module

AScPCI660
Photon series

Product Overview - Preliminary

The AScPCI660 Ultra speed PCI/X Fast Flash Disk CompactPCI 6U modules plug into a single cPCI slot and interfaces via PCI/X bus. Assembled with Asine *Photon series* four Solid State Disks (SSD's), the AScPCI660 shows performance of 250MB/Sec to 800MB/Sec burst and sustain R/W with up to 50,000 IOPS & can be accessed by cPCI bus J1/J2 (PIO, DMA, Ultra DMA5). Available storage up to 8TB flash and RAID 0/1 capable in a single high cPCI format.

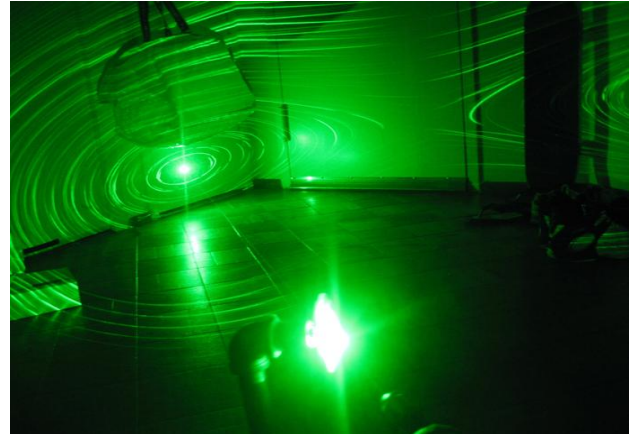
The AScPCI660 yields an added online Flash Disk storage, which is scanned and registered automatically by CPU BIOS.

Thus - No Connecting Cables or any harness are needed!

Supporting OEM specific application features such as **conformal coating**, **conduction cool**, write protect & **secure erase** (in special models) and more. Supported by **Windows**, **Linux**, **VxWorks**, **Integrity**, and other.

Custom **specific coating** available for special environment like – **medical**, **space**, **military**, **naval**, and **more**. Optional **configuration freeze** and **long term support**.

The AScPCI660 carries a 1 year warranty and optional long term support.



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
- Digital Recorders



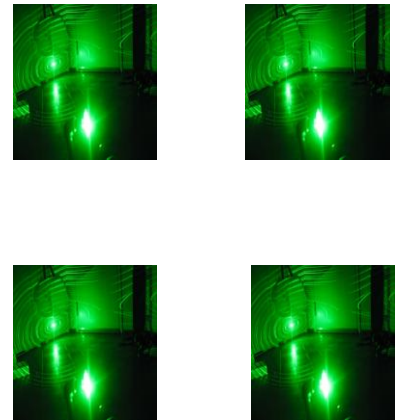
Photon series Flash
Disk Technology

Features

- 256GB to 8TB of non-volatile Flash Disk memory in a single cPCI 6U slot
- RAID 0 & 1 support of the four SSD's
- Less than 40 µsec access time
- High data transfer rate – up to 500 MB/Sec Burst & Sustained R/W (configuration dependent)
- IOPS (4KB random): 50,000 (SSD dependent @ each installed unit is 13,000 IOPs of 4K random)
- Fast erase – self H/W sanitize erase of entire media
- Reliability - MTBF > 600,000 hours (MIL-HDBK-217F, 87,600 hours mission)
- EDC/ECC On-the-fly H/W & S/W Embedded 48bit Reed Solomon algorithm
- Built-in power-up self test
- Manual and automatic self-diagnostics
- Dynamic wear leveling
- 18 W max power dissipation (depending on capacity)
- 3,000,000 Write/Erase cycles; Read unlimited (SSD dependent)
- 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 80,000 feet
- SATA2 type internal interface (four SSD drives) with DMA6 & PIO 0-4
- O.S. Drivers - uses existing Windows, Linux. Optional VxWorks® and Integrity
- Long term product life cycle support
- Conformal coating (Humiseal 1B31 for MIL). Optional – compliant to Space and Medical applications
- 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)
- Some parameters are SSD dependent
- Warranty - 1 Year

Photon series

AScPCI660 takes advantage of the Asine *Photon series* SLC top reliable high performance mass storage Solid State Disk. The board is designed not only to withstand extreme shocks and vibrations, while operating without compromising data integrity, but to provide top disk performance and capacity.



Ordering Information: P/N Structure: AScPCI6x0-[cap]-[t][d][f]

AcPCI6x0	capacity	t	d	f
6 PCI I/F	0240	C	D	F
	0500	Z		
	1000			
	2000			
	240GB	0°C to 70°C	Conduction cool	Conformal Coating
	500GB	-40°C to 85°C		
	1000GB			
	2000GB			

Ordering Example:

AScPCI660-0500-CDF is a compactPCI 6U, PCI interface, 500 GB Flash Disk capacity, conduction cooled, operating at -0°C to 70°C conformal coated

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