The ASPMC660 Ultra speed PCI Fast Flash Disk PMC modules plug into a single PMC slot and interfaces via PCI bus. Asine Photon series SLC Fast Flash Disk (FFD) performs up to 100MB/Sec burst and sustain R/W, which can be accessed by PCI bus (PIO, DMA, Ultra DMA6) and available up to 128GB in a single high PMC format.

The ASPMC660 Ultra Fast Flash Disk interfaces by Jn1 & Jn2 to the PCI bus - yield 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, Integrity OS, write protect, secure erase (specific models), and more. Supported by Windows, Linux, VxWorks and other. Optional configuration freeze and long term support.

Custom specific conformal coating available for special environment like – medical, space, military, naval, and more.

The ASPMC660 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
- Data acquisition systems

Enabling Photon series
Flash Disk Technology
ASPMC660 Features

- 16 GB to 128 GB Flash Disk in a single PMC slot at single high PCI interface
- High data transfer rate, up to: 100MB/Sec Burst R/W, 50MB/Sec Sustained Read/Write
- IOPS min.4KB random Read 17,000, 0.5KB random Write: 3,000 (overall capacity & flash technology dependent)
- Operating temperature: Commercial 0°C to +70°C and Industrial -40°C to+85°C
- Storage temperature -55°C to +95°C
- Less than 20 µsec access time
- Fast erase / Sanitize
- MTBF > 1,000,000 hours (depending on capacity) MIL-HDBK271F
- EDC/ECC On-the-fly H/W & S/W based on BCH
- Dynamic wear leveling & Bad Block Management
- >3,000,000 Write/Erase cycles; Read unlimited
- Embedded EDC/ECC, based on 48-bit Reed Solomon Algorithm for ECC
- Bad Block Mapping and Management
- Wear-Leveling Algorithm: Dynamic wear- leveling
- Built-in power-up self test, manual and automatic self-diagnostics
- Power consumption typ/max 3W / 4.5W (for up to 128 GB capacity)
- Humidity 5% to 95% relative, non-condensing
- Altitude (operating & non-operating) +70,000 feet
- FFD unit MIL-STD 810F: Shocks - Half Sine, 1500G, 0.5ms, 40G @ 11msec.
  Vibrations - 16.3G RMS (Random, 20Hz to 2000 Hz, 3 vibrations axes)
- O.S. drivers - uses existing Windows, Linux and VxWorks® using Asine P/N AS660VXPPC1.0 and AS660VXPPC2.0
- Supported by Integrity™ OS, Linux/Linux-RT drivers
- Conduction cooled
- Conformal coating (Humiseal 1B31). Optional – compliant to Space, Military, and Medical applications

Ordering Information:  P/N Structure: ASPMC6x0-[cap]-[t][c][f]

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<th>ASPMC6x0</th>
<th>cap</th>
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ASPMC660 takes advantage of the Asine Photon series SLC top reliable high performance mass storage Solid State Disk. The FFD is designed not only to withstand extreme shocks and vibrations, while operating without compromising data integrity, but also to provide top disk performance and capacity.

Ordering Example:
ASPMC660-0600-ZCF is a PMC Ultra Flash Disk module, with 60GB, PCI Interface, Conformal coated, Conduction cool, operating at –40°C to 85°C.

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