Removable Storage Media is employed in all of our airborne recording and data storage products. The High Performance Environmentally Rugged Disk and Flash (HiPERDisk™ and HiPERFlash™) products are used in our Airborne Digital Video Recorder (DVR), Network Storage System (NSS) and Acoustic Data Recorder (ADR). Developed specifically for commercial and military airborne applications, each HiPERDisk/HiPERFlash Removable Media Module (HRMM) provides removability, portability, environmental protection, secure erase (HiPERFlash only) and industry standard SATA interfaces for data access. Compatible with our Media Management Station (HMMS™) for data exploitation/debriefings.

- 480GB data storage
- 10,000 mate/demate rating
- FAT32 file system
- HiPERFlash backwards compatible with HiPERDisk

**FEATURES**

- Common use on DVR, NSS, ADR, HMMS
- Removable Media
- 480GB of Storage
- NSA 9-12 Secure Erase (HiPERFlash only)

**APPLICATIONS**

- Surveillance - DVR
- Network Appliance – NAS/SAN RAID
- ASW/Acoustic Data Recording – ADR
- Ground Data Exploitation - HMMS

**PLATFORMS/SYSTEMS**

- Fixed Wing
- Rotary
- Surface/Subsurface Vessels
PHYSICAL CHARACTERISTICS

(Disk/Flash)
Size: 8.6" H x 2.45" W x 10.9" D
218mm H x 62mm W x 277mm D
Weight: 8.2/7.8 lbs; 3.73/3.54 kgs
Power: 20.1 watts (max)/30 watts (max)
40.1 watts (w/heater)/30 watts (no heater)
Cooling: Forced Air Convection (External)

PERFORMANCE CHARACTERISTICS

(Disk/Flash)
• Storage Capacity (user) 480 Gbytes
• Interface: SATA-1
• Sustained Writes (64K block)* 30MBps/70MBps
• Sustained Reads (64K block)* 30MBps/70MBps
• Random Writes (4K block)* 70/220 IOPS
• Random Reads (4K block)* 1000/2800 IOPS
  * each drive (4 drives per HRMM)

SPECIAL FEATURES

(Disk/Flash)
• NSA 9-12 Secure Erase: N/A /< 2 minutes

DESIGN COMPLIANCE

EMI/EMC: MIL-STD-461E
Acoustic Emissions MIL-STD-740-1
Environmental:
  Altitude Meth 500.4 Proc II
  Rapid Decompression Meth 500.4 Proc III
  Random Vibration Meth 514.5 Proc I
  Acceleration Meth 513.5 Proc II
  Crash Safety Meth 513.5 Proc III
  Shock Meth 516.5 Proc I
  Bench Handling Meth 516.4 Proc VI
  Temperature Meth 501.4 Proc I & II
  Temperature Shock Meth 503.4 Proc I
  Explosive Atmosphere Meth 511.4 Proc I
  Humidity Meth 507.4 Proc I
  Fungus Fungus inert material
  Decontamination No Damage

ENVIRONMENTAL QUALIFICATIONS

HiPERDisk™

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<tr>
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<th>Operating</th>
<th>Non-operating</th>
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<tbody>
<tr>
<td>Temperature</td>
<td>0°C to +50°C</td>
<td>-40°C to +71°C</td>
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<tr>
<td>Altitude (max)</td>
<td>11,000 ft</td>
<td>40,000 ft</td>
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<tr>
<td>Humidity</td>
<td>6% to 95%</td>
<td>6% to 95%</td>
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<tr>
<td>Shock (half-sine)</td>
<td>10 G, 11ms</td>
<td>10 G, 11ms</td>
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<tr>
<td>Vibration (random)</td>
<td>2.7 Grms, 10 to 2000 Hz</td>
<td>4.6 Grms, 10 to 2000 Hz</td>
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HiPERFlash™

<table>
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<tbody>
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<tr>
<td>Shock (half-sine)</td>
<td>10 G, 11ms</td>
<td>10 G, 11ms</td>
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<tr>
<td>Vibration (random)</td>
<td>3.5 Grms, 10 to 2000 Hz</td>
<td>7.7 Grms, 10 to 2000 Hz</td>
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