

# » AM4501 «



## SATA AMC module — extended temperature for NEBS compliance

- » Mid-Size and Full-Size, Single Width (AMC.0 R2.0)
- » Extended temperature range of 0-70°C/32-158°F (Operating)
- » PICMG AMC.3 R1.0 compliant
- » 80 GB capacity
- » 5400 rpm, 12ms average seek time (1.5ms track to track)

# Ideal low-cost, high-capacity storage solution

## Easily managed via IPMI v1.5 implementation

Built in accordance to the PICMG AMC.0 R2.0 specification, the AM4501 module is also PICMG AMC.3 R1.0 compliant, and features Native Command Queuing (NCQ) with up to 32 instructions to be queued and reordered.

The AM4501 module features a SATA switching port device which enables the system to interconnect AMC port 2 or 3 to SATA drive port 0, which can be set automatically by the MMC.

This makes it possible to design redundant storage configurations for MicroTCA open modular platforms.

AdvanceddMC modules are also key to extending the value of AdvancedTCA platforms designed for multiple applications in wireless / wireline network infrastructures.

### Technical Information

<b>Hard Disk Features</b>	Storage capacity: 80 GB
<b>Access</b>	5,400 RPM, avg seek time 14 ms
<b>Sequential Bandwidth R/W</b>	8MB cache 150MB/s burst
<b>Characteristics</b>	NEBS level 3; 24 hours / 7 days operation; MTBF: > 1 008 000 hours @ 40 C / 104 F (Telcordia SR-332, Issue 1) No Hard Disk
<b>Compliance</b>	PICMG AMC.0 R2.0 / AMC.3 R1.0
<b>IPMI Features</b>	Management Controller compliant to PICMG 3.0, AMC.0 and IPMI v1.5 rev 1.1. Management Controller is run time field reprogrammable without payload impact. Robust fail safe reprogramming implementation (which includes two firmware images) that could perform automatic or manual rollback if a problem occurs during critical reprogramming phase. Remote upgrade capability from all IPMI interfaces (via IPMB) Management Controller self test which can detect failure under its code integrity and trig an automatic rollback.
<b>Supervisory</b>	Hardware system monitor through IPMI (voltage, currents, temperature), temperature monitor / alarm; board temperature sensor, power failure.
<b>Mechanical</b>	181.5 x 75 x 30.16 mm, single-width full-size; 181.5 x 75 x 18.96 mm, single-width mid-size; Weight: 350 g
<b>Power Requirements</b>	Management power is less than 150 mA peak at 3.3V Payload power is 16W
<b>Environmental Temperature*</b>	Operating: 0-70°C/32-158°F; Storage and Transit: -40 to +70°C/-40 to 158°F
<b>Environmental Humidity*</b>	Operating: 15% to 90% @55°C/131°F non-condensing; Storage&Transit: 5% to 95% @ 40°C/104°F non-condensing
<b>Environmental Altitude*</b>	Operating: 4,000 m / 13,123 ft; Storage and Transit: 15,000 m / 49,212 ft
<b>Environmental Shock*</b>	Operating: 30G, half-sine 11ms, each axis; Storage and Transit: Bellcore GR-63-CORE Section 4.3
<b>Environmental Vibration*</b>	Operating: 1.0G, 5-500Hz each axis; Storage and Transit: 0.5G, 5-50Hz; 3.0G, 50-500Hz each axis
<b>Safety / EMC</b>	Meet or exceed: Safety: UL 60950-1; CSA C22.2 No 60950-1-03; EN 60950-1:2001; IEC60950-1 EMI/EMC: FCC 47 CFR Part 15, Class B; CE Mark to EN55022/EN55024/EN300386
<b>Warranty</b>	Two years limited warranty

\* Designed to meet or exceed

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