kontron

» AM4500 «

Low-cost, high-capacity SATA AMC module

» Mid-Size and Full-Size, Single Width (AMC.0 R2.0)
» PICMG AMC.3 R1.0 compliant
» 120GB and 250GB at 7200 RPM capacity
» 24 hours / 7 days operation
» S.M.A.R.T. Technology

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 AM4500 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 AM4500 storage 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. AdvancecdMC modules are also key to extending the value of AdvancedTCA platforms designed for multiple applications in wireless / wireline network infrastructures.

Technical Information

Hard Disk Features	Storage capacity: 120GB and 250GB
Access	7200 RPM, avg read/seek time 10.5 ms
Sequential Bandwidth R/W	8MB cache 150MB/s burst
Characteristics	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
Compliance	PICMG AMC.0 R2.0 / AMC.3 R1.0
IPMI Features	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 reprogrammation implementation (which includes two firmware images) that could perform automatic or manual rollback if a problem occurs during critical reprogramation 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
Supervisory	Hardware system monitor through IPMI (voltage, currents, temperature), temperature monitor / alarm; board temperature sensor, power failure.
Mechanical	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
Power Requirements	Management power is less than 150 mA peak at 3.3V Payload power is 16W
Environmental Temperature*	Operating: 0-55°C/32-131°F; Storage and Transit: -40 to +70°C/-40 to 158°F
Environmental Humidity*	Operating: 15% to 90% @55°C/131°F non-condensing; Storage&Transit: 5% to 95% @ 40°C/104°F non-condensing
Environmental Altitude*	Operating: 4,000 m / 13,123 ft; Storage and Transit: 15,000 m / 49,212 ft
Environmental Shock*	Operating: 30G, half-sine 11ms, each axis; Storage and Transit: Bellcore GR-63-CORE Section 4.3
Environmental Vibration*	Operating: 1.0G, 5-500Hz each axis; Storage and Transit: 0.5G, 5-50Hz; 3.0G, 50-500Hz each axis
Safety / EMC	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
Warranty	Two years limited warranty

* Designed to meet or exceed

CORPORATE OFFICES

Europe, Middle East & Africa
Lise-Meitner-Str. 3-5
86156 Augsburg
Germany
Tel.: +49 (0) 821 4086-0
Fax: +49 (0) 821 4086 111
sales@kontron.com

North America
14118 Stowe Drive
Poway, CA 92064-7147
USA
Tel.: +1 888 294 4558
Fax: +1 858 677 0898
info@us.kontron.com

Asia Pacific
17 Building,Block #1, ABP.
188 Southern West 4th Ring Road
Beijing 100070, P.R.China
Tel.: +86 10 63751188
Fax: +86 10 83682438
info@kontron.cn