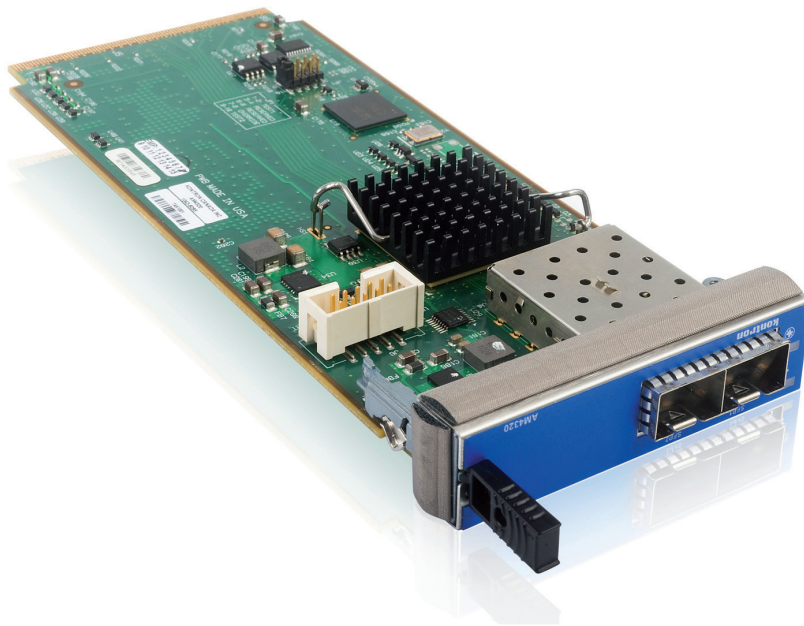


» AM4320 «



Dual 10 Gigabit Ethernet AdvancedMC Module

- » Provides expanded bandwidth for ATCA node blades (AT8060) and MicroTCA platforms
- » Two 10Gigabit Ethernet on SFP+ ports supported by Intel 82599ES Ethernet controller implementation
- » PCI Express® GEN 2 x8 interface between AMC edge connector and controller
- » Supports remote management via IPMI v2.0 and features a Management Controller that is run-time field reprogrammable without any payload impact
- » Designed to meet NEBS compliance - Reliability, Availability, Serviceability, Maintainability

AM4320

AdvancedMC Dual 10G Module

The Kontron AM4320 Dual 10GbE module is the ideal AdvancedMC unit for network applications that require multiple ports directly from an AdvancedTCA processor blade, such as the AT8060 Dual 8-Core Xeon ATCA Processor blade.



AT8060

Technical Information

Ethernet Controller

Intel® 82599ES Ethernet controller

Manageability

IPMI implementation is based on Renesas H8S2472 controller, also called the MMC
MMC Firmware supports IPMI 2.0.

I/O

Front Panel: Two SFP+ connectors
PCI Express GEN 2 x8 interface is connected from the AMC edge connector to 82599ES controller
PCI-Express interface also work in x4, and x1

Reliability

Targeted MTBF is 250000 @ 30°C, calculations based on Telcordia SR-332

Power Requirements

Module power consumption is no more than 12 Watts.

Compliance / Regulatory

EN 300 019; Telcordia GR-63; • Telcordia SR-3580 level 3; Telcordia GR-1089; EN 300 386; EN 55022; EN 55024; UL/CSA/IEC/EN 60950-1

Board Specifications

AMC.0 specification R2.0; AMC.1 Revision 2.0; IPMI firmware upgrade complies with PICMG HPM.1 R1.0 specification

Hot Swap

Supports PCIe hot-plug, when the AMC carrier and operating system are properly instrumented

OS Compatibility

Red Hat Enterprise Linux Server version 5.x 64-bit; Red Hat Enterprise Linux Server 6.x 64-bit; Wind River CGL 4.0

IPMI Features

Management Controller compliant IPMI v2.0
MMC Firmware is IPMI v2.0, AMC.0 R2.0 compliant
MMC Firmware implements AMC.1 R2.0 E-keying extensions

Warranty

Two years limited warranty

Power Requirements

Module power consumption is no more than 12 Watts

Environmental

	Operating	Storage and Transit
Temperature*	0°C to +45°C / 32°F to 113°F	-40°C to +85°C / 14°F to 185°F
Humidity*	5%-93% non-condensing @40°C / 104°F	5% to 93% @40°C / 104°F non-condensing @40°C / 104°F
Altitude*	-300 m to 4,000 m / -984ft to 13,123 ft	-300 m to 14,000 m / -9,84 ft to 45,931 ft
Shock*	11 ms half sine, 3 g, 3 shocks in each direction	6 ms half sine, 18 g, 100 shocks in each direction
Vibration*	5 Hz to 10 Hz @ +12 dB/oct (slope up) 10 Hz to 50 Hz @ 0.02 m2/s3 (0.0002 g2/ Hz) (flat) 50 Hz to 100 Hz @ -12 dB/oct (slope down)	5 to 200 Hz 0.2 g

* 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