» AM4320 «

10G

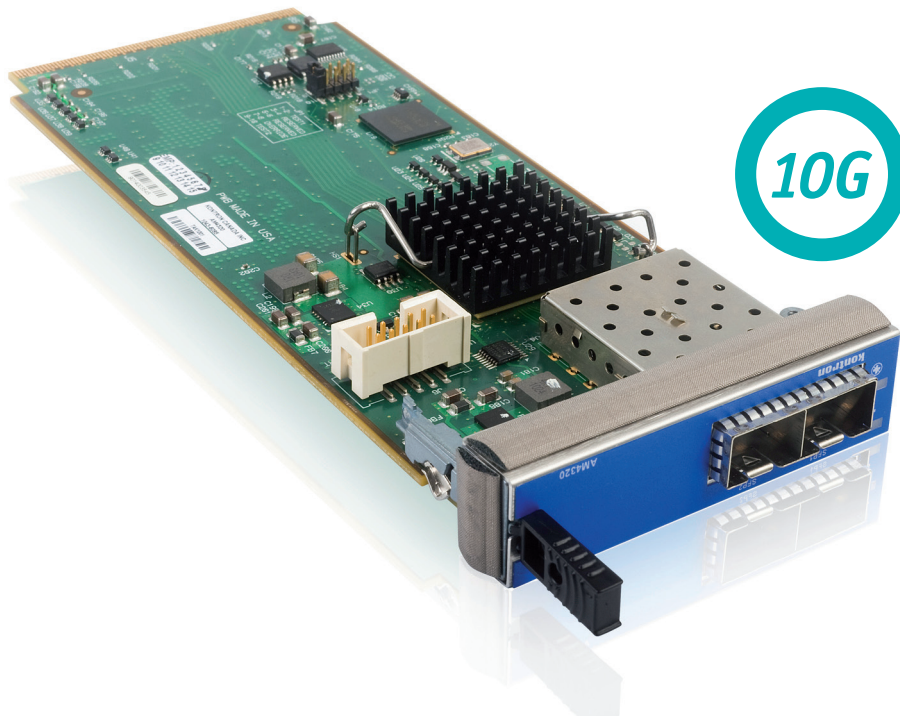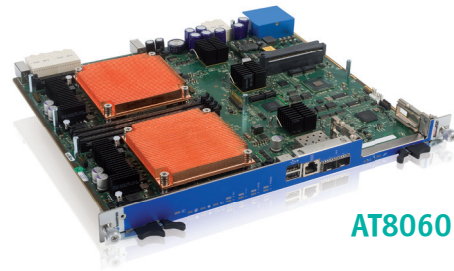## Dual 10 Gigabit Ethernet AdvancedMC Module

» 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

If it's embedded, it's Kontron.

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%	5% to 93% @40°C / 104°F
	non-condensing @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.

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