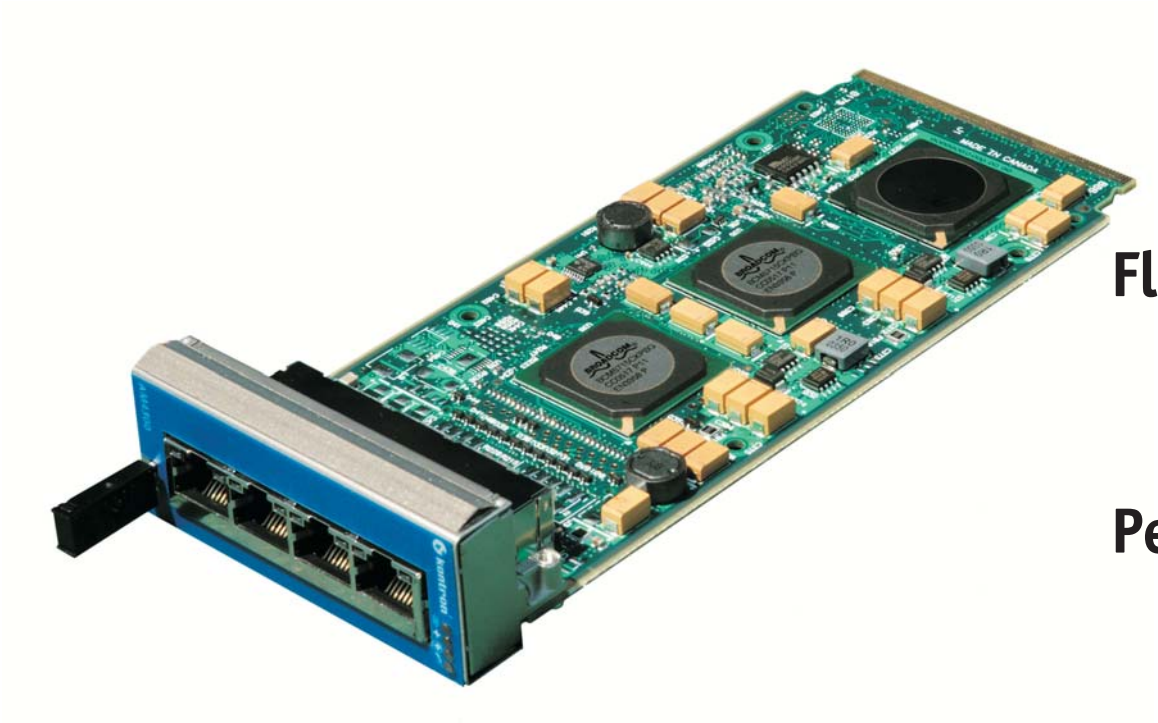
AM4300

QUAD GbE Advance Mezzanine Card



Flexibility

Performance

Manageability

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

The Kontron AM4300 Quad GbE module is the ideal AdvancedMC unit for network applications that require multiple ports directly from an AdvancedTCA processor blade. Available in full height, single width form factors, the AM4300 features 4 x 10Base-T/100Base-Tx/1000Base-T ports, supports PCI-E x8, x4, x2 and x1 link, and supports remote management via IPMI v1.5.

As a hot-swappable, field replaceable unit (FRU), the AM4300 also follows the same stringent carrier grade RASM feature set, namely - Reliability, Availability, Serviceability, Maintainability. When offered in combination with AdvancedTCA platforms, TEM (Telecom Equipment Manufacturers) clients literally conserve valuable system slots, as the AM4300 maximizes communications I/O for Gigabit Ethernet and Fast Ethernet networks with four independent 10/100/1000 ports from a single slot.

- Full Height Single width
- Multiple configurations available
- PCI-E x8, x4, x2 and x1 link supportes
- Broadcom controller include internal RISC processor
- Management through IPMI 1.5

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Technical Specifications

Kontron "AMC Everywhere" strategy

A major factor in driving profits, for both TEMs and carriers, is to operate cost-optimized, flexible networks that can carry any new and innovative feature their client subscribers demand. To help achieve this objective, Kontron offers an "AMC Everywhere" approach to maximize the design possibilities for high density processing and I/O line card applications. This is why Kontron supports AdvancedMC modules at the AdvancedTCA processor board and base and fabric switch interface level.

AdvancedMCs are also proving to be an attractive solution for proprietary form factor base boards. For example legacy telecom systems can be outfitted with COTS AdvancedMCs to enable a smooth migration from purely proprietary technology to a 100 per cent AdvancedTCA system in the future.

Kontron AdvcancedTCA Platform products

Kontron AT8901 AdvancedTCA Hub Board

·Versatile hub board that supports 2 AdvancedMC modules, and switch fabric options (GbE and Advanced Switching Interconnect)

Kontron AM4500 High Capacity SATA Storage Module

·Full height single width form factors, and up to 120 GByte capacity

Kontron AT8001 AdvancedTCA processor board, dual AdvancedMC support

·Powered by a LV, high performance Intel® Xeon® processor up to 2.8 GHz
·Dual Gigabit Ethernet and dual Fiber Channel on fabric interface, dual Gigabit Ethernet base interface

Kontron XL8000 AdvancedTCA chassis

·12U height, 19" Rackmount
·Cost effective riveted steel construction
·200 Watts/slot cooling

Advanced Software Features and Network Managment

- Support from BASP (Braodcom Advanced Server Platform)
  - · Smart Load Balancing
  - · Generic trunking
  - · Transmit / Receive Teaming
  - · Fault Tolerance
  - · VLAN Support
- Supports for:
  - · IEEE 802.3x flow control,
  - · 802.1Q VLANs,
  - · 802.3ad Link Aggregation
  - · 802.3ab
- Jumbo Frame Support
- Half Duplex or Full Duplex modes
- Internal RISC processor task offload functions:
  - · TCP Segmentation
  - · IP Fragmentation and reassembly
  - · TCP, IP, UDP checksum
  - · Microsoft LSO (Large Send Offload)
- Cable Diagnostics
- Fault Recovery
- Adapter Failover
- Auto-negotiation

OS Compatibility

RedHat Linux Enterprise 4

Compliancy

- AMC .0 Rev. 1.0; AMC .1 Rev. 1.0; AMC .2

Mechanical

- 181.5 x 75 x 30.16 mm, Single-width Full-Height
- Weight: less than 350g

Power Requirements

- Managment Power is less than 100mA peak at 3.3V
- Payload power TBD is less than 30W

Environmental

	Operating	Storage and Transit
Temperature:	0-55°C/32-131°F	-40 to +70°C/-40 to 158°F
Humidity:	15% to 90% @ 55°C/131°F	5% to 95% @ 40°C/104°F
Altitude:	4000 m / 13 123 ft	15 000 m / 49 212 ft
Shock:	30G each axis	Belcore GR-63-CORE Section 4.3
Vibration:	1.0G, 5-500Hz each axis	0.5G, 5-50Hz; 3.0G, 50-500Hz each axis

Reliability

MTBF: 470 000 hours @40°C/104°F (Telcordia SR-332, Issue 1)

Safety /EMC

Designed to meet or exceed:
Safety: UL 60950 3rd ed.; CSA C22.2 No. 60950-00; EN 60950; IEC 60950-1
EMI/EMC: FCC 47 CFR Part 15, Class B; CE Mark to EN55022/EN55024

2 year limited warranty

Two configurations are available:

· 4x 10/100/1000 Ethernet ports on Front panel RJ45
· 4x 1000Base-X Serdes with output routed to RTM or baseboard via IPMI

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