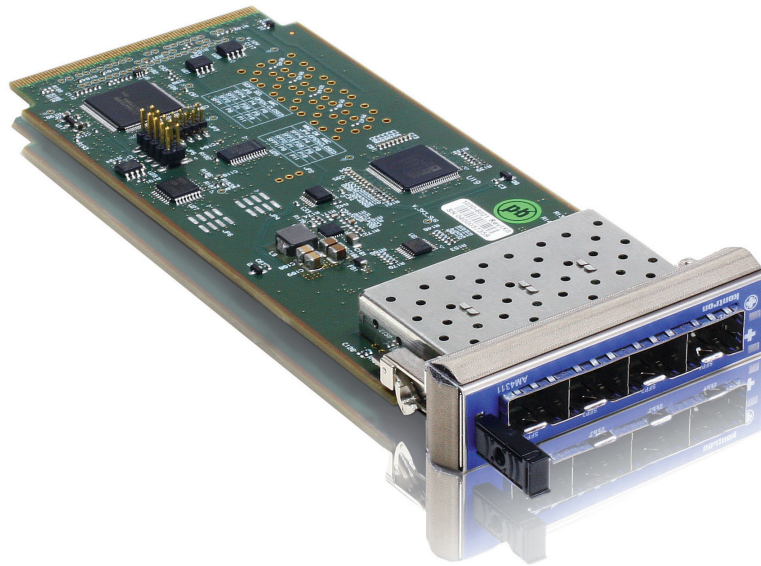


» AM4311 «



Quad SFP Interface Module

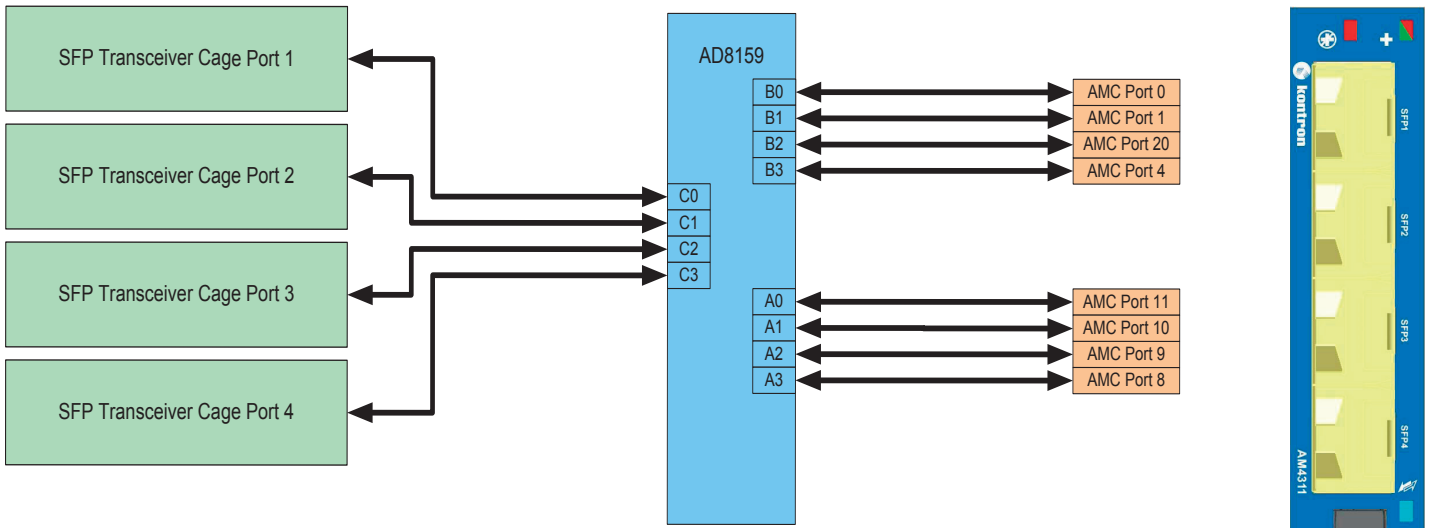
- » Cost optimized design
- » Quad 1000Base-X SFP
- » AMC.0 / AMC.2 compliant
- » Management through IPMI 1.5 implementation

AM4311

Quad 1000Base-X SFP

The AM4311 is a single-width AMC module offering 4x 1000Base-X SFP interfaces at the front panel. The main function of this module is to direct-connect GbE ports from an AMC connector of an AMC carrier or a µTCA system to the front. The AM4311 selects 4 of 8 GbE ports from the AMC connector.

By using the AM4311 either in a µTCA system or on an AMC carrier the overall available uplink GbE interfaces in the system can be increased.



Technical Information

System Interconnect

Gigabit Ethernet

I2C

Front Interfaces

Gigabit Ethernet

LEDs

Compliance

AMC

MicroTCA

IPMI

CE

Safety

Electromagnetic
Compatibility

WEEE

RoHS

2x 4 GbE ports: AMC port 0,1, 4, 20 (Quad-Lane A) and AMC port 8, 9, 10, 11 (Quad-Lane B)
Either Quad-Lane A or B can be selected via software (IPMI OEM-command) to be directed to the front panel
1x IPMB-L

4x SFP

3 AMC management LEDs (Hot Swap, Out-of-Service, Health)

PICMG® AMC.0, Advanced Mezzanine Card Specification R2.0, PICMG® AMC.2 AMC Gigabit Ethernet R1.0

PICMG® MTCA.0 Micro Telecommunications Computing Architecture R1.0

IPMI - Intelligent Platform Management Interface Specification, V1.5

EN55022, EN55024, EN61000-6-2/-6-3, EN300386, EN60950-1

CB report to IEC 60950-1, complies with EN/CSA/UL 60950-1

CFR 47, FCC Part 15, Subpart B

Telcordia GR-1089-Core-Issue 3 and SR-3580 Issue 2

» EMC Directive 89/336/EEC (Europe)

» EN55022 (Europe)

» EN55024 (Europe)

» EN61000-4-2 + A1 + A2

» EN61000-4-3 + A1

» EN300 386 V1.3.3, Electro Magnetic Compatibility (EMC) Requirements for Public Telecommunication Network

Equipment; Electromagnetic Compatibility (EMC) Requirements

Directive 2002/96/EC

Directive 2002/95/E

Technical Information

Environmental

Temperature Range	Operating: 0 °C to +60 °C, at air flow: 20 CFM, Non-Operating: -40 °C to +85 °C
Humidity	Operating: 15%-90% (non-condensing) at 0°C to 55°C, Non-Operating: 5%-95% (non-condensing) at -40°C to 70°C
Vibration	According to IEC 60068-2-6, Bellcore GR-63, Section 4.4 and MIL-STD-810E, Method 514: Operating: <ul style="list-style-type: none"> » 5Hz to 100Hz: 1G @ 0.25 Octave/minute » 100Hz to 500Hz: 1G @ 1 Octave/minute » 5Hz @ 0.01 g² /Hz to 20 Hz @ 0.02 g² /Hz (slope up) » 20Hz to 500 Hz @ 0.02 g² /Hz (flat) » 3.13 g RMS, 10 minutes per axis for all 3 axes Non-Operating: <ul style="list-style-type: none"> » 5Hz to 50Hz: 0.5G @ 0.1 Octave/minute » 50Hz to 500Hz: 3G @ 0.25 Octave/minute
Shock	The board is designed to meet the following requirements IEC 60068-2-27 and MIL-STD-810E, Method 516: <ul style="list-style-type: none"> » Operating: 30G/11 ms half sine » Non-Operating: 50G, 170 inches/second trapezoidal
Miscellaneous	
Dimensions	Single-width, mid-size, 180.6 mm x 73.5 mm
Power Supply	12 V Payload Power, 3.3 V Management Power
Power Consumption	Typ. 4.5 W
Board Weight	100 grams
MTBF	>170,000h@40°C, calculations based on Bellcore/Telcordia SR-332

Ordering Information

Article	Description
AM4311M	4x SFP Interfaces, single mid-size

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