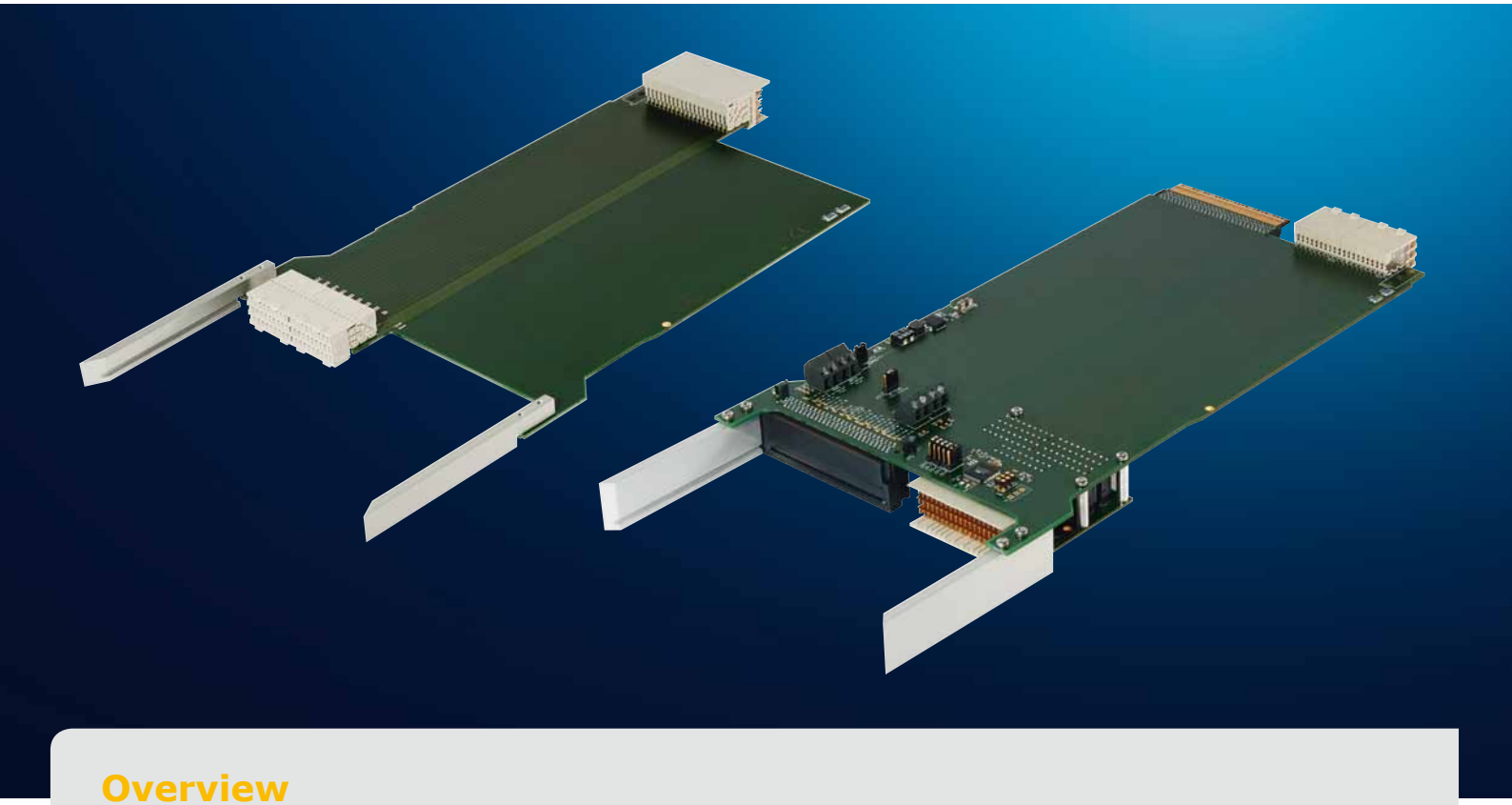
NAMC-EXT-RTM-F/R and NAMC-EXT-RTM-F-PS



Overview

The **NAMC-EXT-RTM-F** and the **NAMC-EXT-RTM-F-PS** are passive extenders in double width format based on Advanced Mezzanine Card (AMC) form factor. It is intended for debugging systems based on MicroTCA.4. The NAMC-EXT-RTM-R is the corresponding extender for degugging rear-transition modules (RTM). The **NAMC-EXT-RTM-F**/-PS enables the user to access the double width AMC modules while the NAMC-EXT-RTM-R provides access to RTMs under test from both sides. The extenders support all fabric connectors as specified by the AMC.x and the additional I/O connector of the MicroTCA.4 specifications. For the purpose of voltage and current measurements the **NAMC-EXT-RTM-F**/-PS allows access to the respective power planes. The extenders are targeted at any applications running in MicroTCA.4 systems.

Key features

- **NAMC-EXT-RTM-F**:
  Easy signal access to the front and rear side of an AMC module from outside the chassis
- Voltage and current measurement of mangement and payload power
- Test points for soldering additional cables to measure all AMC signals
- Test points for JTAG interface
- **NAMC-EXT-RTM-F-PS**:
  additional 3.3V on-board power supply (PS) allows stand-alone mode of an AMC module (only 12V required)
- NAMC-EXT-RTM-R:
  Easy signal access to the front and rear side of an RTM module from outside the chassis

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Technical Data

NAMC-EXT-RTM-F/R and NAMC-EXT-RTM-F-PS

Overview

The **NAMC-EXT-RTM-F** and **NAMC-EXT-RTM-F-PS** are passive extenders supporting all fabric connectors as defined in the AMC.x and the additional I/O connector of the MicroTCA.4 specifications.

The extenders fit into a double AMC slot like a regular AMC module. Therefore, the **NAMC-EXT-RTM-F**/-PS just occupies the space of a double AMC module.

The extenders provide access to the tracks of payload power and management power voltage. This enables users to easily check these voltages as well as to measure the power consumption of the AMC under test conditions.

Test Points

The differential signals with up to 6.25 GHz frequency are available as small SMD test points. Other signals such as geographical address, IPMB signals are routed to standard test points allowing assembling with standard 100 mil header connectors. There are a number of test points available on the extenders and all AMC signal identifiers are printed on the silkscreen. Using the NAMC-EXT-RTM all test points on both sides (soldering and assembly side) of the AMC module are accessible in the testing mode.

JTAG

Test points for JTAG signals can be assembled with 100 mil header connector.

NAMC-EXT-RTM-F-PS

The **NAMC-EXT-RTM-F-PS** offers an additional on-board 3.3V power supply requiring only 12V for standalone usage of the AMC module.

NAMC-EXT-RTM-R

The NAMC-EXT-RTM-R allows easy signal access to the front- and rear-site of an RTM module outside the chassis. It is connected to the **NAMC-EXT-RTM-F** /-PS via the I/O connector.

Key Features

AMC Interface

All fabrics are connected through (from AMC rear connector to front connector)

Power Consumption

Due to absence of components the NAMC-EXT-RTM-F/-PS and NAMC-EXT-RTM-R draw almost no power from the carrier's power supply

Environmental Conditions

- Operating temperatue: -40°C to +85°C with forced cooling
- Storage temperature: -40°C to +85°C
- Relative humidity: 5% to 90% rh non-condensing

Standard Compliance

- AMC.0 R2.0
- AMC.1 R2.0
- AMC.2 R1.0
- AMC.3
- AMC.4
- MicroTCA.4

Order Codes

- NAMC-EXT-RTM-F
- NAMC-EXT-RTM-F-PS
- NAMC-EXT-RTM-R

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