

AMC – Break-out Card

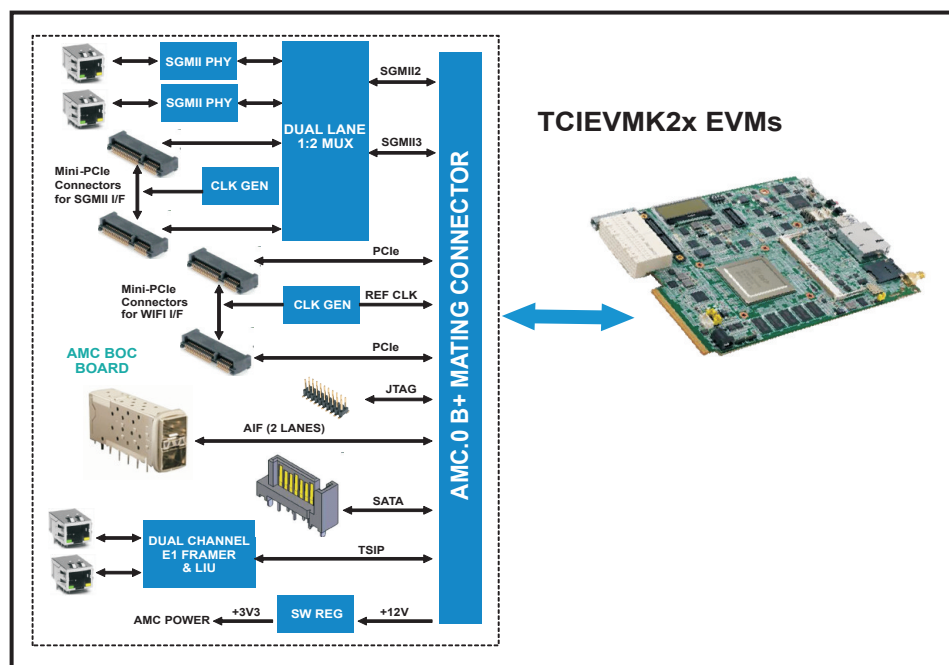
Overview

The AMC–Break-out Card (AMC-BOCRT) from Mistral is a six layer plug-in module for the Keystone II family of EVMs starting with TCIEVMK2x. The TCIEVMK2x is a double wide AMC form factor card based on the Multicore DSP+ARM KeyStone II System-on-Chip from Texas Instruments. The AMC–Break-out Card provides access to PCIe, SGMII, SATA, TSIP, Antenna Link Interface (AIL), I2C and JTAG interfaces available on the AMC Edge connector of the TCIEVMK2x EVMs.

The AMC–BOC primarily consists of two gigabit Ethernet PHY, High speed dual lane multiplexer, dual channel E1 Transceiver, multi-output clock generator and external interfacing connectors.

The AMC–BOC board provides the following interfaces:

- ▶ Antenna Link Interface
- ▶ Two Gigabit Ethernet SGMII interface
- ▶ SATA
- ▶ Two Mini-PCIe interface port
- ▶ Telecom serial interface port
- ▶ I2C/SPI interface
- ▶ JTAG interface



Features

- ▶ Two mini PCIe connectors for mini PCIe Wifi card support
- ▶ Two single channel SGMII PHY with two RJ45 connectors with integrated magnetics to support SGMII interface (via DS100x multiplexer)
- ▶ Dual Lane 2:1/1:2 multiplexer to mux SGMII port to mini PCIe connector or SGMII PHY
- ▶ Two mini PCIe connectors for SGMII interface support (via DS100x multiplexer)
- ▶ 20-pin JTAG header for TI JTAG interface support
- ▶ Two lane Antenna Link interface (AIL) over 2by1 stacked SFP+ connector for validating TCIEVMK2L & TCIEVMK2H EVMs AIL interfaces
- ▶ Two RJ45 connectors with Dual-channel E1 framer IC for TSIP/TDM interface support on the TCIEVMK2E EVMs
- ▶ SATA interface connector for validating the PCIe-SATA bridge of TCIEVMK2E EVM.

Applications

The AMC–BOC card is useful for validating interfaces available on the AMC edge connector of TCIEVMK2x EVMs. This card along with the TCIEVMK2x EVMs, serves as a reference design for the following applications:

- ▶ Routers
- ▶ Switches
- ▶ Networking control plane
- ▶ High performance computing

Deliverables

- ▶ AMC–BOC card
- ▶ Software and user manual for the AMC–BOC can be downloaded from Mistral's website after product registration

Ordering

For ordering information please email us at sales@mistralsolutions.com or call +1-408-705-2240 for USA and +91-80-3091-2600 for rest of the world.

About Mistral

Mistral is a technology design and systems engineering company providing end-to-end solutions for product design and application deployment. Mistral focuses in two business domains: Product Engineering Services and Defense & Homeland Security. Mistral provides total solutions for a given requirement, which may include hardware board design, embedded software development, FPGA design, systems integration and customized turnkey solutions.

Mistral's strategic partnerships with leading technology companies help provide customers with a comprehensive package of end-to-end solutions.

Mistral Solutions is a Platinum Member of Texas Instrument Design Network offering development platforms, reference designs and services in the area of software & hardware design, development and consulting on various TI DSPs platform.



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