

AMC-2C6616

DATASHEET

A high performance AMC card based on TI's new C6616 DSPs and Xilinx Virtex 6, with high speed, flexible I/O

Ideal for LTE and LTE Advanced test equipment and other applications requiring very high DSP performance

Front panel I/O options: triple SFP+ (to DSP or FPGA) or dual mini-SAS

Synchronisation via front panel or AMC TCLKs; GPS receiver option



KEY FEATURES

- Dual TMS320TCI6616 multi-core DSPs
- Xilinx Virtex-6 FPGA, LX240T-2 standard, up to LX550T possible
- Multiple banks of DDR3 SDRAM for both DSPs and FPGA
- Flash memory
- IDT CPS-1848 Serial RapidIO switch
- Broadcom BCM5389 Ethernet switch
- Separate "glue logic" for board configuration and management
- Three front panel SFP+ optical interfaces configurable as CPRI, OBSAI, GigE, SRIO or other standards
- Dual mini-SAS; to FPGA and SRIO
- Timing and synchronisation from front panel or backplane clock I/O, or optional GPS receiver
- Single width Full Size PICMG AMC.0 R2.0 Advanced Mezzanine Card

RESULTING BENEFITS

- ⇒ The latest high performance TI DSPs
- ⇒ Cost effective, high density device; largest FPGA available if required
- ⇒ Latest external memory technology with multiple high bandwidth buses
- ⇒ Stores multiple FPGA images & software
- ⇒ SRIO V2.1 at up to 20Gbps per port
- ⇒ Gigabit Ethernet to all main devices
- ⇒ Allows control, FPGA configuration and FLASH reprogramming over SRIO/SPI
- ⇒ Flexible high-speed optical links, especially suitable for wireless applications. Options to link to DSP AIF2 or FPGA.
- ⇒ Flexible high-speed cabled connectivity
- ⇒ No additional timing equipment needed, significantly reducing system complexity; syncs easily to wireless test equipment.
- ⇒ Works with industry standard MicroTCA chassis; can also run standalone

The CommAgility AMC-2C6616 is a high performance DSP/FPGA based processing card in the extremely compact Advanced Mezzanine Card form factor. It is powered by two of the latest Texas Instruments TMS320TCI6616 DSPs plus a high-density Xilinx Virtex-6 FPGA. It is ideal for LTE and LTE Advanced eNodeB and wireless test, as well as other high performance DSP/FPGA processing applications.

Serial RapidIO at up to 20Gbps per port is supported by an IDT CPS-1848 Gen2 SRIO switch. As standard, the board provides three front panel SFP+ optical interfaces that link directly to the DSP AIF2 for CPRI or OBSAI. Alternative build options are SFP+ interfaces to the FPGA, or dual mini-SAS connectors for up to 40 Gbps of front panel I/O. Timing and synchronisation for wireless applications is achieved via the front panel or backplane clock I/O or an optional built-in GPS receiver, reducing overall system complexity and cost.

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