

Innovative Integration

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Quixote

Quixote is a 64-bit CompactPCI 6U board for advanced signal capture, generation, and co-processing. It combines one C6416 DSP with a two- or six- million-gate Virtex-II FPGA, utilizing the best of both worlds in signal processing technology to provide extreme processing flexibility and efficiency and deliver unmatched performance. Dual 105 MHz analog input/output integrate signal capture and waveform generation right on the FPGA external interface. One PMC site facilitates integration of off-the shelf or custom PMC mezzanine boards. Finally a PCI-to-StarFabric bridge offers two 2.5 Gbps ports to the new PICMG 2.17 switched interconnect backplane, for up to 625 MBps board-to-board or chassis-to-chassis communication.



FEATURES

- ✦ 1 GHz TMS320C6416 DSP and 2- to 6-MGATE Virtex-II FPGA
- ✦ 32 MB SDRAM, 8 MB ZBT SDRAM, and AD6645 and AD9764 converters
- ✦ 64/32 bit CompactPCI, 66 MHz, 5 V/3.3 V and complex trigger modes with HW event logging
- ✦ PMC site with Jn4 to FPGA DIO and PICMG 2.17 StarFabric compliant
- ✦ Applications include: Software Defined Radio, wireless IP and RADAR, development and hardware testing
- ✦ Physical Layer Field Testing, ultra-fast flexible data acquisition, vector signal generation and electronic warfare