V8200
FPGA Development Platform

Benefits

Open- standards integrated platform accelerates application development and helps mitigates risk.

Enables development of 10- Gigabit Ethernet applications.

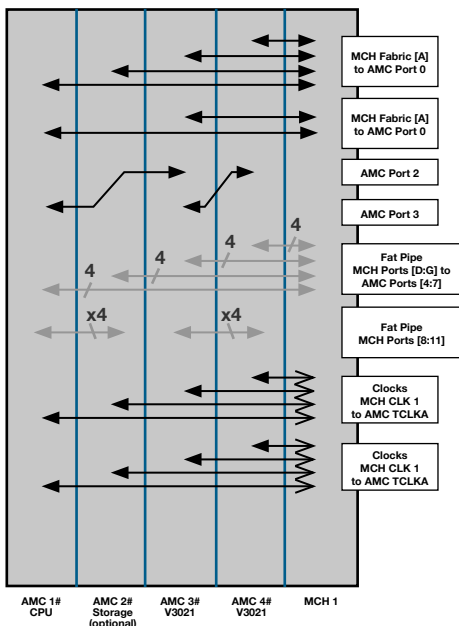Provides highest application performance using advanced FPGA processing capabilities.

Features

Fully integrated MicroTCA platform featuring Intel processor and Xilinx FPGAs

Linux Fedora Core 11 64-bit operating system

MicroTCA carrier hub (MCH) providing 10 Gigabit Ethernet switching over star topology

500MB hard drive for storage

Direct slot-to-slot fabric connections for minimum latency

Cable accessory kit available

Overview

The V8200 is a fully integrated MicroTCA platform that is ideal for quickly developing high performance 10 Gigabit Ethernet applications. It features two V3021 AdvancedMC modules supporting a range of Xilinx Virtex-5 FPGA options for maximum network traffic processing performance. This compact platform provides four 10 Gigabit Ethernet ports and comes standard with expressXG Development Framework, an advanced FPGA development infrastructure that gives programmers the advantage to develop high bandwidth applications rapidly and efficiently. The V8200 is equipped with a system controller based on the Intel Core 2 Duo processor running Fedora Core Linux. A high performance MCH provides central management and 10 Gigabit Ethernet switching over a star fabric backplane topology. In addition, the V8200 provides direct slot-to-slot fabric connections for communication between AdvancedMC modules.

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> **V3021 AMC Module Backplane Connections**

Technical Specifications

PLATFORM
5- slot Micro TCA compact chassis
Star fabric topology backplane
MCH XAUI switch

FPGA PROCESSING
2 V3021 Dual Channel 10 Gigabit Ethernet FPGA AMC

SYSTEM CONTROLLER
Intel Core2 Duo rpocessor running Fedora Core 11 64-bit Linux

STORAGE
500MB Hard Drive

POWER REQUIREMENTS
Maximum power consumption: 250W
Input voltage: 120V, 60 Hz

COMPLIANCE
PICMG MTCS.0 R1.0 for MicroTCA
IEEE 802.3ae 2002 10GBASE LAN
RoHS Directive 2002/95EC
FCC 47 CFR Part15 Class A (USA)
ICES-003 Class A (Canada)
EN 55022 Class B (EU)
UL/EN 60950-1

DIMENSIONS
156.75mm (W) x 150mm (H) x 250mm (D)

ENVIRONMENTAL
Operating: 0˚ C to 45˚ C
Storage: -40˚ C to 85˚ C

FOR MORE INFORMATION:

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