

V1020

Single Channel 10 Gigabit Ethernet PMC/XMC

Benefits

Provides 10 Gigabit Ethernet communication for embedded systems.

Supports maximum throughput, low latency communication between embedded processors and 10 Gigabit Ethernet networks.

Improves overall application performance by requiring very little processor resources to handle Ethernet communications.

Features

Single 10 Gigabit Ethernet XFP port

Built-in UDP offload engine for real time communication

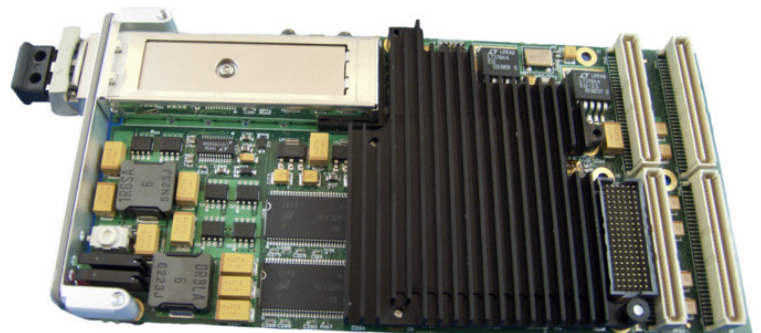
Supports PCI Express or PCI-X 133MHz host interface

Standard socket APIs supported under VxWorks and Linux

Available in air-cooled XMC form factor

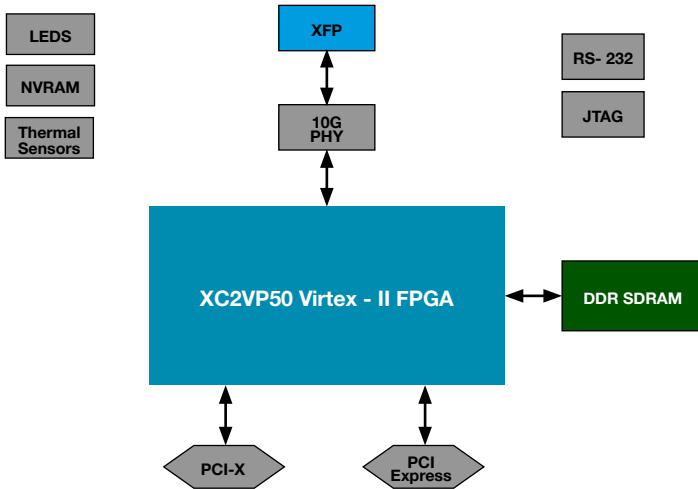
Overview

The V1020 card features a single 10 Gigabit Ethernet XFP interface and supports PCI Express or PCI-X 133MHz host interface. It provides real time high bandwidth data communication in embedded systems using standard socket APIs to maximize throughput between embedded processors and 10 Gigabit Ethernet networks. The V1020 comes standard with udpXG, a high performance UDP offload engine for real time 10 Gigabit Ethernet communications.



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> V1020 Single Channel 10GbE PMC/XMC Module
Block Diagram

Technical Specifications

NETWORK INTERFACE

10GBASE-SR or 10GBSASE-CX4 XFP port

ETHERNET PROTOCOLS

UDP, ARP, ICMP

FPGA DEVICE

Xilinx XC2VP50 Virtex -II Pro

MEMORY

256MB or 512MB 166MHz DDR SDRAM

FLASH

32MB memory for storing a configuration image

HOST INTERFACE

PCI Express x4 or PCI-X 64-bit, 133MHz

EXTERNAL INTERFACE

42 single-ended user I/O on Pn4

THERMAL SENSORS

2 digital temperature sensors

DIMENSIONS

74 mm (width) x 149 mm (length)

COMPLIANCE

IEEE 1386.1 PMC

VITA 42.3 Standard

IEEE 802.3ae 2002 LAN

POWER REQUIREMENTS

Maximum 12W

TEMPERATURE

Operating: 0 to 50° C

Storage: -40° C to 85° C

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