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PMC-3101-xx2

PMC with Dual Fast Ethernet Interfaces

I/O & Communications

Features

- Two 10BaseT/100BaseTX Ethernet ports
- Front-panel I/O via RJ45 or rear-panel I/O via P4 (order option)
- Conduction cooled with rear panel I/O via P4 version is available
- Indicators for speed, link and activity
- Auto-negotiating protocol selection
- Two 3 KB FIFOs
- Drivers for VxWorks available



PMC-3101-xx2 is a PMC (PCI Mezzanine card) with dual 10BaseT/100BaseTX Ethernet interfaces for 10/100 Mb Ethernet expansion in CompactPCI®, VMEbus, and other embedded computer applications.

The Ethernet network interface complies with the IEEE 802.3 specification for 10BaseT and 100BaseTX. Both full-duplex and half-duplex modes are supported. The card is compliant with standard single-wide PMC specifications IEEE P1386.1.

The PMC-3101 includes 3 KB of transmit and 3 KB of receive FIFO, allowing back-to-back transmission with minimal interface latency. It also features a 10BaseT and 100BaseTX auto-detection CSMA/CD interface controller.

The physical interface is supported via the built-in Physical Layer Interface Unit in the Ethernet controller. It supports a number of sophisticated features, including autonegotiation, collision detection, link detection, Manchester encoding/decoding (10BaseT), 4B/5B encoding/decoding (100BaseTX), and scrambling/descrambling (100BaseTX). The PMC-3101 includes two front-panel RJ45 ports for network connectivity, or may optionally be ordered with I/O access via the rear-panel P4 connector.

PMC-3101 addresses a variety of carrier-class, industrial, and military COTS applications requiring quick, easy expansion of 10/100 Mb Ethernet capability and PMC form factor.

Software support is available for VxWorks®.

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PMC-3101-xx2



Specifications

Form Factor
- Single-wide PMC

PMC Conformance
- 32-bit PMC Spec. IEEE P1386.1

PCI Interface
- 32-bit, 33 MHz master and slave, 3.3/5 V signaling, PCI Spec. Rev 2.2

PCI Controller
- Intel 21152

Number of Ports
- Two, independent

Ethernet Controllers
- Intel 82551

Protocols
- Ethernet 10BaseT and 100BaseTX

Receive/Transmit FIFOs
- 3 KB each

Front-Panel I/O Access
- Two RJ45 connectors

Rear-Panel I/O Access
- PMC P4 (order option)

Power Requirements
- +3.3 VDC at 500mA (typical)
- +5 VDC at 50mA (typical)

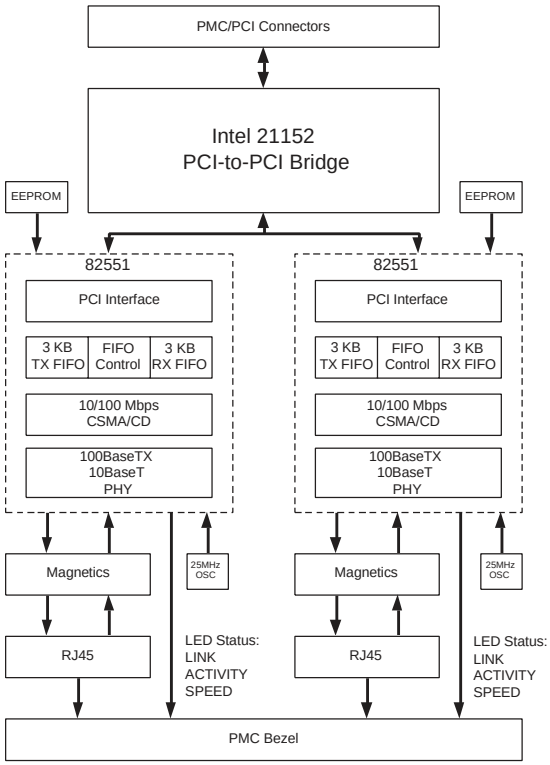
Temperature
- Operating: 0° to +70° C
- Storage: -40° to +85° C

Humidity
- 5% to 95%, non-condensing

Weight
- 0.09 kg (0.2 lb)

Dimensions
- 74.0 mm x 149.0 mm

Block Diagram



Ordering Information

PMC-3101-FP2	Dual 10/100 Ethernet PMC with front panel I/O
PMC-3101-BP2	Dual 10/100 Ethernet PMC with back panel I/O
PMC-3101-BP2-CC	Dual 10/100 Ethernet PMC with back panel I/O and conduction cooling

Software Drivers

- VSRD-FEIEND VxWorks x86 and PPC driver pack

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