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SBS Technologies, Inc.

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PMC-3101

PMC Module with Two Fast Ethernet Interfaces

Application Information

The PMC-3101 provides two independent high performance Fast Ethernet interface controller ports on a single-wide PMC module. 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 PMC-3101 includes 3 Kbytes of transmit and 3 Kbytes of receive FIFO, allowing back-to-back transmission with minimum 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 auto negotiation, collision detection, link detection, Manchester encoding/decoding (10BaseTx), 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.

The PMC-3101 is supported for popular operating systems including VxWorks and Windows NT. The module is compliant with standard single-wide PMC specifications IEEE P1386.1.

Features

- Two 10BaseT/100BaseTx Ethernet ports
- Front panel I/O via RJ45 or rear-panel I/O via P4 (order option)
- Single-wide PMC form factor
- Indicators for speed, link, and activity
- Auto-negotiating protocol selection
- Two 3 Kbyte FIFOs
- Drivers for VxWorks and Windows NT

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Specifications

Form Factor	Single PMC
PMC Conformance	32-bit PMC Specification IEEE P1386.1
PCI Interface	32-bit, 33 MHz master and slave, 3.3/5V signaling PCI Specification, Revision 2.2
PCI Controller	Intel 21152
Number of Ports	Two, independent
Ethernet Controllers	Intel 82559ER
Protocols	Ethernet 10BaseT, 100BaseTx
Receive/Transmit FIFOs	3 Kbytes each
Front Panel I/O Access (-FP option)	Two RJ45
Rear Panel Panel I/O Access (-BP option)	PMC P4
Indicators	Speed, activity, link
Dimensions	74.0 mm x 149.0 mm
Weight	0.09 kg (0.2 lb)
Power Requirements	+5 VDC, 50 mA typ. +3.3 VDC, 500 mA typ
Environmental	Operating temperature: 0 to 70°C Humidity: 5 to 95% non-condensing Storage: –40 to +85°C

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Order Information

PMC-3101-FP	PMC module with two Fast Ethernet ports. Front panel I/O.
PMC-3101-BP	PMC module with two Fast Ethernet ports. Back panel I/O.
EK-PMC-3101	Engineering Kit for PMC-3101. Contains: Printed hardware user manual Bill of materials Assembly diagram Intel 82559ER data sheet Intel 21152 data sheet Windows NT 4.0 driver on diskette
NDK-2000	Windows NT 4.0/2000 driver pack CDROM
VDK-X86	VxWorks 5.3/5.4 driver pack for x86 CDROM
VDK-PPC	VxWorks 5.3/5.4 driver pack for PowerPC CDROM

Associated Products

PMC-100BT	Single 10/100BT Fast Ethernet PMC Module
P2-100BT-ER	10/100BT Fast Ethernet Type II PC•MIP™ Module
CP-3101	Dual 10/100BT Fast Ethernet Interface for 3U CompactPCI

SBS Technologies, Inc.

8371C Central Avenue, Newark, California 94560
(510) 742-2500 • sales.mio@sbs.com • www.sbs-mio.com

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