

▶ **PMC240**

Gigabit Ethernet Controller



PMC Modules

- ▶ **Speedy**
Reduce your network load considerably due to shortened transfer times.
- ▶ **Innovative**
Optimize your application possibilities by using a multilateral module.
- ▶ **Versatile**
Maximize your data throughput due to two independent channels.

Product Overview

Designed for operation in latest high speed networks, the PMC240 provides rapid data throughput and most flexible operation.

Speedy

Two individual channels without the need of a PCI/PCI bridge grant the rapidity of this module. The wide bandwidth of this new semiconductor technology with 32/64 bit, 33/66 MHz PCI and/or 66/133 MHz PCI-X operation corresponds to the requirements of even the most demanding of applications.

Innovative

Developed with the use of the latest technology, the PMC240 has an excellent reliability, as the SerDes functionality is integrated. By using only one PCB for all available variants, it is very easy to convert or customize it for any application.

Versatile

Offering the possibility of either one or two channels as well as the support of copper and/or optical transmission, allows a maximum flexibility. Furthermore the PMC240 has an intelligent behaviour through the Auto detect of 10Base-T, 100Base-TX or 1000Base-T in copper network configurations.

Host Interface

32/64 Bit PCI Interface over PMC connectors Pn1, Pn2, Pn3, Compliant with Draft Standard Physical and Environmental Layers for PCI Mezzanine Cards PMC, P1386.1/Draft 2.4, 12-Jan-01, and the mechanical Draft Standard for a Common Mezzanine Card Family CMC, P1386.1/Draft 2.4a, 21-Mar-01.

Characteristics

Controller:	Dual Channel Intel® 82546EB Gigabit Ethernet Controller Complete 32/64 Bit 33/66 MHz PCI and 66/133 MHz PCI-X interface or optionally One Channel Intel® 82545EM Gigabit Ethernet Controller
Copper interface:	10 Base-T, 100 Base-TX or 1000 Base-T half and full duplex with auto detection
Fiber interface:	1000 Base-SX full duplex
Flash Memory:	Optionally soldered TSOP32 Flash up to 512 kB for boot agent capability
Configured EEPROM:	onboard soldered 4 MBit Microwire EEPROM (256 x 16 organization) for config. Data
Frontpanel:	2 x RJ45 for dual channel copper 2 x SC-Type connectors for dual channel fiber 1 x RJ45 and 1 x SC-Type connector for mixture

Software Support

Windows®XP, Windows®2000, Linux®

Common

Power Supply:	3.3 V over PMC interface
Dimensions:	74 mm x 149 mm (PMC card size)
Temperature Ranges:	82546EB: 0°C to 55°C (standard) 82545EM: 0°C to 70°C (standard) -40°C to +100°C (storage)
Climatic Humidity:	non-condensing 93% at 40°C acc. to IEC 60068-2-78
Weight:	75 g
MTBF:	534.400h acc. to MIL-HDBK-217F2

Ordering Information

Product	Description	Order No.
PMC240	PMC Dual Channel Gigabit Ethernet, Copper	24007
PMC240	PMC Dual Channel Gigabit Ethernet, Fiber	24008
PMC240	PMC Dual Channel Gigabit Ethernet, Copper and Fiber	24014
PMC240	PMC Single Channel Gigabit Ethernet, Copper	24015
KIT-PMC240	Documentation and Windows® Driver Kit PMC240, PDF, Drivers	24486
Note:	1) KIT-PMC240 free of charge downloadable from the Internet	

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