

Features -Benefits

- ◆ Two-port, high-speed intelligent WAN telecommunications module for PMC compatible baseboards
For network connections within SS7 network elements, wireless nodes, signaling and media gateway devices, or remote access servers
- ◆ Based on the Motorola MPC860MH PowerQUICC® Processor
Provides high-speed, onboard protocol execution with minimal system utilization
- ◆ Integrated CSU/DSUs
Onboard Layer 1 interface eliminates the need for costly external CSU/DSUs
- ◆ Front or rear I/O
Port connectivity through front panel Compushield connectors, or through PMC P14 connector
- ◆ T1 or E1 (75 or 120 Ohms) support
Multiple versions for termination flexibility
- ◆ 16 MB of shared DRAM Memory
Handles onboard protocol processing and heavy traffic loads without compromising system performance
- ◆ 1 MB Flash PROM
Simplifies field firmware upgrades
- ◆ Integrated WAN Communications Software
PTI's WAN Protocol Suite includes HDLC, Frame Relay, LAPD, and X.25
- ◆ Broad Operating System Support
Solaris®, Windows NT®, Linux® and VxWorks®

PMC370PQ T1/E1 PMC WAN Telecommunications Module



PTI's PMC370PQ Intelligent T1/E1 WAN Telecommunications Module for PMC compatible baseboards provides OEMs and integrators with two fully channelized T1/E1 interfaces for telecom and datacom applications.

This module is ideal for SS7, Frame Relay or any channelized connection to SS7 network elements, signaling and media gateway devices, wireless nodes, or remote access servers and multiplexers.

The PMC370PQ has been designed as a fully programmable communications sub-system with an onboard RISC communications processor. Integrated CSU/DSUs further simplify system development and eliminate the need for costly external devices.

The PMC370PQ plays a significant role in making Performance Technologies a full-line supplier of innovative telecommunications and networking products that enable the convergence of wireline, wireless and next generation Internet Protocol networks.

Telecom Hardware Features

The architecture of the PMC370PQ capitalizes on the leading edge capa-

bilities of the MPC860MH, Motorola's PowerQUICC®-based datacomm processor. This device, specifically designed as a specialized communications controller, offers very high performance and full channelization of the T1/E1 spans.

The processing power and 16MB DRAM array allows the PMC370PQ to execute Layer 2 communications activities directly onboard, handling most of the low-level communications activities that burden host workstations and servers. By relegating most or all T1/E1 communication-related processing to the PMC370PQ, the host system can operate much more efficiently, freeing it to process other tasks. The result is the highest possible system performance.

Extensive Software Support

With a well defined API, the integrated protocol suite from Performance Technologies reduces time to market by eliminating unnecessary development time at the hardware/protocol level. The protocols for our standard WAN hardware products enable development engineers to proceed directly to integration and application development efforts.



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PMC370PQ T1/E1 PMC WAN Telecommunications Module

Specifications

Performance:	2 Ports @ 1.544 Mbps (T1) 2 Ports @ 2.048 Mbps (E1) 64 Clear-channels @ 64Kbps
Processor:	40 MHz Motorola MPC860MH PowerQUICC® 64 HDLC channels 52 K Dhystone minimum
Memory:	16 MB shared DRAM, 512 KB flash boot PROM
Bus Structure:	Single-width 32-bit, conforms to IEEE P1386.1 and 1386, PCI Revision 2.1 compliant
Physical Interface:	Front Panel I/O: via Compushield connectors Rear Panel I/O: routed through PMC P14 connector
Layer 1 Interface:	Dallas Semiconductor DS2151Q (T1), DS2153Q (E1)
Protocol Support:	HDLC, Frame Relay, LAPD, X.25
Compliance:	ANSI T1.403-1989, AT&T TR-62411, CCITT G.703, G.704, G.706, G.823, I.431
Certifications:	FCC Class A, CE
MTBF:	> 200,000 power-on hours (POH calculated)
Power:	7.5 watts maximum (1.75 A @ +5 V)
Dimensions:	149 mm x 74 mm
Temperature:	Operating: 0° to 50° C (32° to 122° F) Non-operating: -20° to 80° C (-4° to 176° F)

Extensive Software Support (cont.)

PTI's comprehensive suite of WAN communications protocols provides complete WAN connectivity solutions for Frame Relay, HDLC, LAPD, and X.25 protocols. Operating system support includes Solaris®, Windows NT®, VxWorks® and Linux.®

For the Solaris® environment, PTI's ChannelLink™ Communications Software provides both a transparent link to all SunLink® protocols, as well as a documented set of driver primitives for developing T1 or E1 related applications.

Ordering Information

PT-PMC370P-10920 Two Port T1, 100 Ohm, Rear I/O
PT-PMC372P-10919 Two Port E1, 120 Ohm, Rear I/O
PT-PMC372P-10921 Two Port E1, 75 Ohm, Rear I/O

PT-PMC370P-10929 Two Port T1, 100 Ohm, Front I/O
PT-PMC372P-10931 Two Port E1, 120 Ohm, Front I/O
PT-PMC372P-10930 Two Port E1, 75 Ohm, Front I/O

Protocol Software Kits

PT-CHNLINK-11012 ChannelLink T1/E1 Software (Solaris only)
PT-HDLCKIT-10878 HDLC & LAPD WAN Connectivity Kit
PT-FRAMEKIT-10867 Frame Relay WAN Connectivity Kit
PT-X25KIT-10996 X.25 WAN Connectivity Kit



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