PERFORMANCE
T E C H N O L O G I E S

PCE335
Four-Port WAN Communications Adapter

Highlights

>> Multipurpose Intelligent
PCI Express® WAN
Communications Adapter

>> Four High-speed Channels
Capable of Sustaining 2 Mbps
per Port

>> Freescale™ MPC8270
PowerQUICC® II Processor

>> 128 MB Dedicated Processor
DRAM Memory
• Handles Extensive Onboard
Traffic and Protocol
Requirements

>> 32 MB Application Flash

>> NexusWare® WAN Protocol
Software:
• Radar Receiver
• TADIL-B
• HDLC
• X.25
• Frame Relay

>> NexusWare® CGL OS and
Development Environment

>> Broad Operating System
Support Includes Solaris™,
Windows®, and Linux®

>> Configurable with Either
Low-profile or Full-height
Faceplate (both are provided
with product)

With the introduction of PCI Express® servers as the latest standard for PCI-based solutions, telecom OEMs and integrators will require high-density, highly advanced I/O solutions for use in these new servers. Performance Technologies' combination of powerful hardware and advanced software, when deployed in these new servers, allows for the creation of high-density, high-performance access solutions for telecom and IP telephony systems.

The PCE335 Intelligent Synchronous WAN Communications Adapter provides four high-performance synchronous/serial channels for WAN connectivity. The adapter is ideally suited for use within SS7 nodes, radar servers, frame relay access devices, high-speed modems, and other high-speed communications devices. The PCE335 is part of Performance Technologies' industry-leading family of access solutions, compute solutions, and award-winning software and high-availability middleware for embedded applications.

Hardware Features

The PCE335 is designed as a fully programmable communications subsystem capable of sustaining high data rates for a variety of protocols used in synchronous data communications. The PCE335 architecture capitalizes on the intelligence of the Freescale™ MPC8270 Quad Integrated Communications Controller (PowerQUICC® II), enabling it to act as a specialized communications controller.

The PCE335 adapter enhances overall system performance by using its onboard intelligence and 128 MB of SDRAM array to handle much of the low-level communications that typically burden the host system, and relegates most of the serial I/O communication-related processing to the PCE335. In addition, the SDRAM eliminates start-up delays associated with application download wait times by enabling the code to be executed directly onboard.

NexusWare® Software Support

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

A comprehensive suite of NexusWare® WAN communications protocols provides complete WAN connectivity solutions for Radar Receiver/SBSI, Frame Relay, HDLC, LAPD, and X.25 protocols. Operating system support includes Solaris™, Windows®, and Linux®.

For customers looking to utilize the SunLink™ WAN packages or the Solistace™ WAN packages, Performance Technologies offers the PCE335-HSI.

PCE335
Four-Port WAN Communications Adapter

Ordering Information

>> **PT-PCE335-12204**
PCI Express Four-Port RS422

>> **PT-PCE335-12180**
PCI Express Four-Port RS232

Cable Options

>> **PT-ACC335-12203**
Four-position, 6 ft Hydra
Cable with Console, RS449

>> **PT-ACC335-12205**
Four-position, 6 ft Hydra
Cable without Console, RS449

>> **PT-ACC335-12233**
Four-position, 6 ft Hydra
Cable with Console, RS232

>> **PT-ACC335-12234**
Four-position, 6 ft Hydra
Cable without Console, RS232

>> **PT-ACC335-12256**
Four-position, 6 ft Hydra
Cable with Console, EIA530

>> **PT-ACC335-12257**
Four-position, 6 ft Hydra
Cable without Console, EIA530

Software Options

>> This product is available with
a variety of software options.
For more information, contact
sales@pt.com.

RoHS • WEEE
COMPLIANT

Corporate Headquarters:
Performance Technologies
205 Indigo Creek Drive
Rochester, NY 14626

Tel: 585.256.0200
Fax: 585.256.0791
E-mail: sales@pt.com

www.pt.com

Technical Specifications

Performance
• Four ports @ 2 Mbps bi-directional
• Simultaneously sustained 8 Mbps maximum
 line speed

Processor
• 266 MHz Freescale™ MPC8270 Motorola
 PowerQUICC II

Memory
• 128 MB shared SDRAM
• 32 MB Application Flash

Protocol Support
• Radar Receiver/SBSI, HDLC, Frame Relay,
 LAPD, and X.25

Agency Certifications
• FCC Class A
• CE
• EN 60950-1

Physical Interface
• RS232
• RS422/RS449/E1A530
• RS232 Console Port
• PCI Express x1 Lane

Compliance
• PCI Express revision 1.0
• All currently applicable ANSI/ISO standards
• RoHS

MTBF
• PT-PCE335-12204
 358,644 hours per Bellcore SR-NWT-000332
 Issue 1
• PT-PCE335-12180
 387,711 hours per Bellcore SR-NWT-000332
 Issue 1

Power
• RS232: Typical 2.4 W (0.200 A @ 12 V)
    1.8 W (0.360 A @ 3.3 V)
• RS422: Typical 2.6 W (0.200 A @ 12 V)
    2.97 W (0.900 A @ 3.3 V)

Dimensions
• 68.90 mm x 167.65 mm (2.7 in. x 6.6 in.)
 (low-profile PCI Express compliant)

Temperature
• Operating: 0 to 50°C (32 to 122°F)
• Non-operating: -20 to 80°C (-4 to 176°F)