

PCE335 PRODUCT SHEET

Four-Port WAN Communications Adapter

FEATURES

Multipurpose Intelligent PCI Express® WAN Communications Adapter

Four High-Speed Channels Capable of Sustaining 2 Mbps per Port

Freescal™ 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. PT's 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 PT's 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 Freescal™ 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), PT's 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, PT offers the PCE335-HSI.



Technical Specifications

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 without Console, RS232

PT-ACC335-12234

Four-position, 6 ft Hydra Cable with Console, RS232

PT-ACC335-12256

Four-position, 6 ft Hydra Cable without Console, EIA530

PT-ACC335-12257

Four-position, 6 ft Hydra Cable with Console, EIA530

Software Options

PT's NexusWare® suite of software provides a comprehensive Carrier Grade Linux® (CGL) OS and development environment as well as middleware and protocol communications software.

For more information visit www.pt.com or call your local representative.

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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)

