



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

- >> Support for SPARC® Architectures and Solaris™ 10 OS

- >> Configurable with Either Low-profile or Full-height Faceplate

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. Included with the PCE335-HSI is enabling software that provides a transparent interface to the SunLink™ WAN packages. This combination of powerful hardware and software allows for the creation of high-density, high performance access solutions for telecom and IP telephony systems when deployed in these new servers.

The PCE335-HSI high-speed 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-HSI 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-HSI 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-HSI 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-HSI 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-HSI. In addition, the SDRAM eliminates start-up delays associated with application download wait times by enabling the code to be executed directly onboard.

HSI Software Support

The HSI software included provides compatibility with Solstice™ WAN software packages available through Sun Microsystems. The HSI software is a transparent interface on Performance Technologies' PCE335-HSI adapter, providing a compliant environment for SunLink WAN packages operating on similar Sun communication modules.

The protocols that operate with the PCE335-HSI adapter include the Solstice X.25 and Solstice Point-to-Point Protocol (PPP). Performance Technologies' HSI adapter conforms to the Sun Synchronous Serial Driver Interface Specification.

The HSI software also includes utilities that enable the modification of some hardware operating modes common to synchronous serial lines. These modifications are used for the operation of some communications packages or in troubleshooting links.



PCE335-HSI

Technical Specifications

Ordering Information

>> **PT-PCE335-12328**
PCI Express Four-Port RS422

>> **PT-PCE335-12329**
PCI Express Four-Port RS232

Cable Options

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

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

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

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-PCE335-12328
358,644 hours per Bellcore SR-NWT-000332 Issue 1
- PT-PCE335-12329
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)



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