

Four Port Synchronous Serial Communications Adapter



The **PCE335** Intelligent Synchronous Serial Communications Adapter provides four high-performance synchronous serial ports for connectivity. The adapter is ideally suited for use within radar servers, frame relay access devices, high-speed modems, and other high-speed communications devices. The PCE335 is part of Sunhillo's industry-leading Protocol Software and connectivity solutions.

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 on-board 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 on-board.

FEATURES

- Multipurpose Intelligent PCI Express® Synchronous Serial Communications Adapter
- Four High-Speed Ports Capable of Sustaining 2 Mbps per Port
- Freescale™ MPC8270 PowerQUICC II® Processor
- 128 MB Dedicated Processor DRAM Memory
- Low-Profile and Full-Height Faceplate available

PCE335: 4 Port Synchronous Serial Communications Adapter

Protocol Solution Software Support

With a well-defined application programming interface (API), Sunhillo's integrated protocol suite reduces time-to-market by eliminating unnecessary development time at the hardware/protocol level. The protocols for Sunhillo's products enable development engineers to proceed directly to integration and application development efforts. A comprehensive suite of communications protocols provides complete connectivity solutions for Radar, TADIL-B, HDLC, X.25 and Frame-Relay protocols. Operating system support includes Linux®, Windows®, and Solaris™.

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, TADIL-B, HDLC, X.25, Frame Relay, Async, and SBSI

Agency Certifications

- FCC Class A
- CE
- EN 60950-1

Electrical Interfaces

- 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)



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