



Odin TeleSystems Inc.

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Sleipnir-1-PCI bridges the gap between LAN (Local Area Network) and WAN (Wide Area Network) by providing network connectivity using E1 or T1 service. The Sleipnir card is supplied with a network driver and supporting software to allow high speed PPP and Frame Relay connectivity. No programming is needed. The T1/E1 interface is fully configurable with integrated CSU/DSU functionality.

Sleipnir-1-PCI can also be delivered with an optional DSP, a C-language API for DSP and T1/E1 configuration, thus making it ideal solution for customized single span T1/E1 connectivity.

HDLC or voice packets on the T1/E1 interface are transferred to the host PC over the PCI bus using 32-bit DMA burst transfers. The packet size is variable making it suitable for both voice and data applications.

Whether your requirements calls for WAN connectivity over T1 or E1 for servers, routers and broadband testing equipment, or an implementation of a customized voice or data application using a single E1 or T1 interface, the Sleipnir-1-PCI board is the product of choice.

So for the best in single access T1/E1 WAN communication adapters, the Sleipnir-1-PCI delivers performance, value and flexibility.

Sleipnir-1-PCI



Sleipnir-1-PCI WAN Adapter for T1/E1 access

Feature Highlights

- Software configurable T1 or E1 access.
- Full or fractional T1 or E1.
- Integrated CSU/DSU.
- BNC or RJ-48C connector option.
- PCI 32-bit DMA Burst capable (PCI Master).
- 3.3V and 5.0V PCI slot tolerant.
- Windows (NDIS miniport) and Linux network driver.
- On-board DSP option (TMS320VC5510 with 400 MIPS processing power and 16Mbyte external SDRAM).
- Multiple clocking options.
- Link status LEDs.

Software Support

Includes either a configurable Sleipnir-1-PCI network driver, or the OTX driver with a C-language API to build customized data, telephony, or telecom applications.	The Sleipnir-1-PCI network driver is available for Windows 98, Windows NT 4.0, Windows 2000, Windows XP, and Linux operating systems. For the DSP option of the card customized DSP voice and data applications can be developed using ANSI C and C++ language and standard third-party development tools.
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Technical Specifications

Board Specification	<ul style="list-style-type: none"> Half-size PCI board
Host Bus Interface	<ul style="list-style-type: none"> Supports PCI rev 2.1, rev 2.2, rev 2.3 (3 volt signaling) and rev 3.0 32-bit PCI DMA burst transfers 3.3V and 5V PCI slot compatible
Network Interface	<ul style="list-style-type: none"> Single T1 or E1 interface (75 Ohm or 100/120 Ohm option) Short haul or long haul compatible Integrated CSU/DSU functionality
DSP Resources (optional)	<ul style="list-style-type: none"> On-board TI TMS320VC5510 DSP (400 MIPS) with 16MB SDRAM
HDLC Resources	<ul style="list-style-type: none"> Support for full or fractional T1 or E1
T1/E1 Frame Formats	<ul style="list-style-type: none"> Doubleframe, CRC Multiframe (E1 mode) F4, SF (or D4), ESF (or F24), SLC96 (T1 mode)
T1/E1 Line Codes	<ul style="list-style-type: none"> HDB3, B8ZS, AMI, AMI with ZCS (Zero Code Suppression)
T1/E1 Signaling Types	<ul style="list-style-type: none"> Channel associated (robbed bit) Common channel
Clocking Sources	<ul style="list-style-type: none"> Incoming T1/E1 span On-board oscillator External clock
Connectors	<ul style="list-style-type: none"> 2 BNC (transmit and receive) or RJ45/RJ48C connectors for E1/T1 Pin header for recovered clock output and external clock input
Testing Features	<ul style="list-style-type: none"> Full access to F, Y, S_i, and S_a bits in E1 mode Full access to FS/DL-bits in T1 and programmable line build-out in T1 mode Transparent mode and programmable transmit pulse shape and input threshold Alarm insertion and detection, Loop codes, channel loopback and BERT patterns
EMC and Safety Testing/Certification (planned)	<ul style="list-style-type: none"> FCC Part 15 (CFR47, Part 15, Subpart B) CE EMC (EN61326-1, AS/NZS 2064) Safety EN60950 and UL6095
Power Requirements/Environmental Data	<ul style="list-style-type: none"> Power consumption: 1.3W (DSP option) Temperature: <u>operating</u>, 0° C to +50° C; <u>non-operating</u>, -40° C to +60° C Humidity: <u>operating</u>, 5% to 80% RH (%relative humidity) at up to +30° C, and 5% to 30% RH above +30° C up to +50° C non-condensing; <u>non-operating</u>, 5% to 80% RH at up to +30° C, and 5% to 30% RH above +30° C up to +50° C non-condensing Altitude: <u>operating</u>, up to 4,600 meters; <u>non-operating</u>, up to 12,192 meters

Ordering Information

Product Name/Product Category	<p>Sleipnir-1-PCI/HAA-1051-1-1.0 (OTX; RJ45/RJ48C connectors) Sleipnir-1-PCI/HAA-1051-2-1.0 (OTX; BNC connectors) Sleipnir-1-PCI/HAA-1051-3-1.0 (OTX; RJ45/RJ48C connectors and DSP) Sleipnir-1-PCI/HAA-1051-4-1.0 (OTX; BNC connectors and DSP) Sleipnir-1-PCI/HAA-1051-5-1.0 (WAN; RJ45/RJ48C connectors and DSP) Sleipnir-1-PCI/HAA-1051-6-1.0 (WAN; BNC connectors and DSP)</p>
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Contact Information

For more information on the Sleipnir-1-PCI product, please contact:	<p>Odin TeleSystems Inc. 800 E. Campbell Road, Suite 334 Richardson, TX 75081-1873 USA</p> <p>Tel: +1-972-664-0100 Tel: 1-888-ODINTSM Fax: +1-972-664-0855 Email: info@odinTS.com Web: www.odinTS.com</p>
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