Odin TeleSystems Inc.

Open Telecom for
Open Minds

The Odin Telecom frameworX (OTX) family of industry award-winning products represents outstanding cost/ performance value for today's service providers and telecom equipment manufacturers. A powerful member of this product family is the Sleipnir-1-PC104-Plus board.

Sleipnir-1-PC104-Plus is a single-span T1/E1 adapter for the PC104-Plus bus. Delivered with a C-language API, and an optional DSP, makes it an ideal solution for standard or customized single span T1/E1 connectivity in a PC104 system.

HDLC or voice packets on the T1/E1 interface are transferred to the host CPU over the PC104 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 T1 or E1 connectivity 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-PC104-Plus board is the product of choice.

So for the best in single access T1/E1 communication adapters, the Sleipnir-1-PC104-Plus delivers performance, value and flexibility.

Sleipnir-1 PC104-Plus

Sleipnir-1-PC104-Plus Adapter for T1/E1 access in the PC104 form factor

Feature Highlights

- Software configurable T1 or E1 access.
- Full or fractional T1 or E1.
- Integrated CSU/DSU.
- PCI 32-bit DMA Burst capable (PCI Master).
- On-board DSP option (TMS320VC5510 with 400 MIPS processing power and 16Mbyte external SDRAM).
- Multiple clocking options.
- Link status LEDs.

Software Support

Includes the OTX driver with a C-language API to build customized data, telephony, or telecom applications.	The Sleipnir-1-PC104-Plus driver is available for Windows NT 4.0, Windows 2000, Windows XP, Windows 2003 Server, 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.

Technical Specifications

Board Specification	• Standard size PC104-Plus board
Host Bus Interface	• Supports PC104 Plus • 32-bit PCI DMA burst transfers
Network Interface	• Single T1 or E1 interface (100/120 Ohm termination) • Short haul or long haul compatible • Integrated CSU/DSU functionality
DSP Resources (optional)	• On-board TI TMS320VC5510 DSP (400 MIPS) with 16MB SDRAM
HDLC Resources	• Support for full or fractional T1 or E1
T1/E1 Frame Formats	• Doubleframe, CRC Multiframe (E1 mode) • F4, SF (or D4), ESF (or F24), SLC96 (T1 mode)
T1/E1 Line Codes	• HDB3, B8ZS, AMI, AMI with ZCS (Zero Code Suppression)
T1/E1 Signaling Types	• Channel associated (robbed bit) • Common channel
Clocking Sources	• Incoming T1/E1 span • On-board oscillator • External clock
Connectors	• 2 BNC (transmit and receive) or RJ45/RJ48C connectors for E1/T1 • Pin header for recovered clock output and external clock input
Testing Features	• 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)	• FCC Part 15 (CFR47, Part 15, Subpart B) • CE EMC (EN61326-1, AS/NZS 2064) • Safety EN60950 and UL6095
Power Requirements/Environmental Data	• Power consumption: TBD • Temperature: operating, 0° C to +50° C; non-operating, -40° C to +60° C • Humidity: operating, 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; non-operating, 5% to 80% RH at up to +30° C, and 5% to 30% RH above +30° C up to +50° C non-condensing • Altitude: operating, up to 4,600 meters; non-operating, up to 12,192 meters

Ordering Information

Product Name/Product Category	Sleipnir-1-PC104-Plus/HAA-1070-1 (With DSP) Sleipnir-1-PC104-Plus/HAA-1070-2 (Without DSP)

Contact Information

For more information on the Sleipnir-1-PC104-Plus product, please contact:	Odin TeleSystems Inc. 800 E. Campbell Road, Suite 334 Richardson, TX 75081-1873 USA Tel: +1-972-664-0100 Tel: 1-888-ODINTSM Fax: +1-972-664-0855 Email: info@odinTS.com Web: www.odinTS.com

2020-1-HCA-1019-1-1.0-1.0