



Odin TeleSystems Inc.

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The Gimle-16-PCI-Plus card allows PCs and other systems with a PCI bus to monitor up to 8 T1/E1 links. Gimle-16-PCI-Plus has 16 T1/E1/J1 receive interfaces which can be used for non-intrusive monitoring of ISDN, Frame Relay, SS7 links and other protocols. The Gimle-16-PCI-Plus provides the highest integration solution where monitoring of multiple links is required.

Where adding DSP resources and keeping PCI slots free is critical, Gimle-16-PCI-Plus allows for connectivity to Odin's ASM daughter boards. Gimle-16 provides software-selectable features that result in highly configurable systems, ones recognized for their convenience and flexibility.

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.

Gimle-16-PCI-Plus offers the highest T1/E1 PCI integration in the industry which allows monitoring of 8 T1/E1 links simultaneously. Various versions are available to suit your needs. The Gimle-16-PCI-Plus can transfer up to 512 time slot to and from the host, Gimle-16-Basic-64 can transfer 64 time slots, and the Gimle-16-PCI-Basic can transfer 32 time slots.

Gimle-16-PCI-Plus is supported by the award winning OTX software platform. The OTX platform supports Microsoft Windows98/2000/Me/NT/XP and Linux operating systems.

Gimle-16-PCI-Plus is the best solution for non-intrusive link monitoring.

Gimle-16-PCI-Plus



Gimle-16-PCI-Plus Adapter for T1/E1 monitoring

Feature Highlights

- Software configurable 16 T1 or E1 receive accesses.
- Ideal for non-intrusive monitoring of ISDN, SS7, Frame Relay links.
- Full or fractional T1 or E1.
- Integrated CSU/DSU.
- BNC or RJ-48C rack-mountable connector option.
- PCI 32-bit DMA Burst capable (PCI Master).
- 3.3V and 5.0V PCI slot tolerant.
- On-board DSP option (TMS320VC5510 with 400 MIPS processing power and 16Mbyte external SDRAM).
- Multiple clocking options.
- T1/E1 span voltage meters and frequency counters.

Gimle-16-PCI-Plus Product Brief

Software Support

Includes the OTX software driver, the OTX and DSP software development kits (SDKs), as well as a variety of host and DSP demo applications

The OTX driver is available for Windows 98, Windows NT 4.0, Windows 2000, Windows XP, Windows 2003 Server, and Linux operating systems. Customized DSP applications can be developed using ANSI C and C++ language and standard third-party development tools.

Technical Specifications

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| Board Specification | <ul style="list-style-type: none"> Gimle-16-PCI-Plus: Full-size PCI board |
| Host Bus Interface | <ul style="list-style-type: none"> Supports PCI rev 2.1, rev 2.2, rev 2.3 (3volt signaling) and rev 3.0 32-bit burst DMA |
| Network Interfaces | <ul style="list-style-type: none"> Gimle-16-PCI-Plus: 16 T1/J1 or E1 receive interfaces (software switchable) Both: 75 Ohm, 100/120 Ohm, high-z termination, monitor amplifier |
| H.100 Interface | <ul style="list-style-type: none"> 32 x 2, 4, or 8 Mbit/s board-to-board highways 256 duplex channels switchable between adapters, 1024 channels switchable locally |
| DSP Resources (with optional ASM daughterboard) | <ul style="list-style-type: none"> Vidar-55x4-ASM: 4 x TI TMS320VC5510 (400 MIPS) with 16MB SDRAM each Vidar-5x4-ASM-PRO: 4 x TI TMS320C5416 (160 MIPS) with up to 512KB SRAM each |
| HDLC Resources | <ul style="list-style-type: none"> 3 (Thor-8-PCI-Plus) HDLC channel(s) per access port. ASM modules offer additional HDLC channels with support for super- and sub-channels |
| T1/E1/J1 Frame Formats | <ul style="list-style-type: none"> Doubleframe, CRC Multiframe (E1 mode) F4, SF (or D4), ESF (or F24), SLC96 (T1/J1 mode) |
| T1/E1/J1 Line Codes | <ul style="list-style-type: none"> HDB3, B8ZS, AMI, AMI with ZCS |
| T1/E1/J1 Signaling Types | <ul style="list-style-type: none"> Channel associated (robbed bit) and Common Channel |
| Clocking Sources | <ul style="list-style-type: none"> On-board oscillator (50ppm), and high-stability (0.5ppm) oscillator available as an option Incoming T1/E1/J1 H.100 Clock External clock |
| Connector | <ul style="list-style-type: none"> 50-pin Centronix, 3-foot cable to harmonica with RJ45/RJ48C connectors for E1/T1/J1, and RJ11 connectors for handsets |
| 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 mode (including support for the DL-channel protocol according to T1.403-1989 ANSI or to AT&T TR54016 specification), and programmable line build-out in T1/J1 mode Alarm detection Frequency and Voltage measurement |
| Power Requirements/Environmental Data | <ul style="list-style-type: none"> Power consumption: 4.4W 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 (15,333 feet); <u>non-operating</u>, up to 12,192 meters (50,000 feet) |

Ordering Information

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| Product Name/Product Category | Gimle-16-PCI-Plus, Gimle-16-PCI-Basic-64, or Gimle-16-PCI-Basic-32 HAA-1050-1-1.0 |
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Contact Information

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| For more information on Gimle-16-PCI product, please contact: | <div> Odin TeleSystems Inc. 800 E. Campbell Road, Suite 334 Richardson, TX 75081-1873 USA </div> <div> Tel: +1-972-664-0100 Tel: 1-888-ODINTSM Fax: +1-972-664-0855 Email: info@odinTS.com Web: www.odinTS.com </div> |
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