



Odin TeleSystems Inc.

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The Gimle-16-PCIe card allows PCs and other systems with a PCIe bus to monitor up to 8 T1/E1 links. Gimle-16-PCIe 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-PCIe 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-PCIe 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.

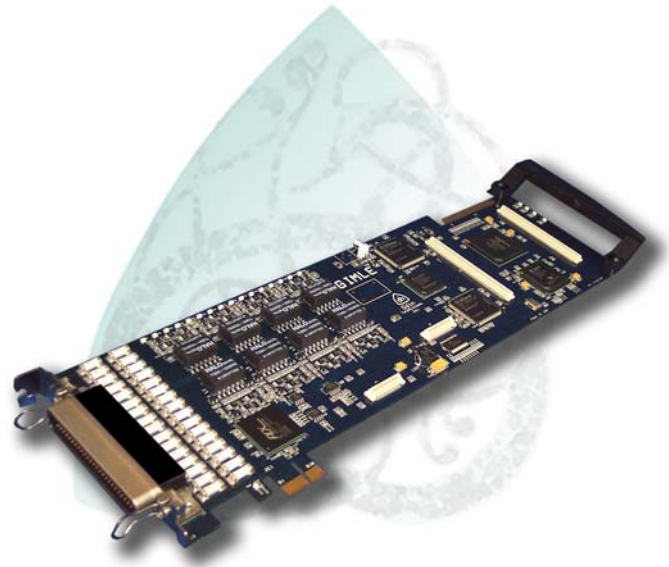
HDLC or voice packets on the T1/E1 interface are transferred to the host PC over the PCIe bus using 32-bit DMA burst transfers. The packet size is variable making it suitable for both voice and data applications.

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

Gimle-16-PCIe is supported by the award winning OTX software platform. The OTX platform supports Microsoft Windows XP/Server2003/Vista (32-bit and 64-bit) and Linux operating systems.

Gimle-16-PCIe is a great choice for non-intrusive link monitoring.

Gimle-16-PCIe



Gimle-16-PCIe 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.
- RJ-48C, BNC, or Type-43 rack-mountable connector option.
- 32-bit DMA Burst over the PCIe interface.
- Can be used in a 1-lane, 4-lane, 8-lane, or 16-lane PCIe slot.
- DSP daughter board option (Vidar-55x4-ASM (4 x TMS320VC5510 with 400 MIPS each) or Alvis-ASM (TMS320DM6443 dual core processors with 4752 DSP MIPS and 297 MHZ ARM9 processing power each) .
- Multiple clocking options.
- T1/E1 span voltage meters and frequency counters.

Gimle-16-PCIe Product Brief

Software Support

<i>Includes the OTX software driver, the OTX and DSP software development kits (SDKs), as well as a variety of host and DSP demo applications</i>	The OTX driver is available for , Windows XP, Windows 2003 Server (32-bit and 64-bit), Windows Vista and Linux operating systems. Customized DSP applications can be developed using ANSI C and C++ language and standard third-party development tools.
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Technical Specifications

<i>Board Specification</i>	<ul style="list-style-type: none"> Gimle-16-PCIe: Full-size PCIe board (12.25" x 3.88")
<i>Host Bus Interface</i>	<ul style="list-style-type: none"> Supports PCI Express r1.0a (single channel) 32-bit burst DMA
<i>Network Interfaces</i>	<ul style="list-style-type: none"> Gimle-16-PCIe: 16 T1/J1 or E1 receive interfaces (software switchable) Both: 75 Ohm, 100/120 Ohm, 300 ohm, and High-z termination, monitor amplifier
<i>H.100 Interface</i>	<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
<i>DSP Resources (with optional ASM daughterboard)</i>	<ul style="list-style-type: none"> Alvis-4-ASM: 4 x TI TMS320DM6443; 19008 DSP MIPS + 4 x 297 MHz ARM9 Vidar-55x4-ASM: 4 x TI TMS320VC5510 (400 MIPS) with 16MB SDRAM each
<i>HDLC Resources</i>	<ul style="list-style-type: none"> 1 HDLC channel per access port. ASM modules offer additional HDLC channels with support for super- and sub-channels
<i>T1/E1/J1 Frame Formats</i>	<ul style="list-style-type: none"> Doubleframe, CRC Multiframe (E1 mode) F4, SF (or D4), ESF (or F24), SLC96 (T1/J1 mode)
<i>T1/E1/J1 Line Codes</i>	<ul style="list-style-type: none"> HDB3, B8ZS, AMI, AMI with ZCS
<i>T1/E1/J1 Signaling Types</i>	<ul style="list-style-type: none"> Channel associated (robbed bit) and Common Channel
<i>Clocking Sources</i>	<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
<i>Connector</i>	<ul style="list-style-type: none"> 50-pin Centronix, 3-foot cable to harmonica with eight RJ45/RJ48C connectors for E1/T1/J1
<i>Testing Features</i>	<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
<i>Power Requirements/Environmental Data</i>	<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

<i>Product Name/Product Category</i>	Gimle-16-PCIe - HAA-1088-1-1.0
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Contact Information

<i>For more information on Gimle-16-PCI e product, please contact:</i>	<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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