



Odin TeleSystems Inc.

*Open Telecom for
Open Minds*

The Thor-8-PCIE computer telephony adapter is a member of the Odin Telecom Frameworks product family. OTX is an industry award-winning OTX platform with products that represents outstanding cost/performance value for today's service providers and telecom equipment manufacturers.

Whether you need reliable testing and measurement capabilities or superior passive monitoring, Thor-8-PCIE board delivers exceptional results. The Thor-8-PCIE provides the highest integration solution where high port density of T1/E1/J1 interfaces is required.

Where adding DSP resources and keeping PCIe slots free is critical, the Thor-8-PCIE allow for connectivity to daughter-boards and software-switchable features that result in highly configurable systems, ones recognized for their convenience and flexibility.

The Thor-8-PCIE board offers the maximum levels of frequency stability through its optional on-board stratum oscillator – the level you expect in the most demanding applications and testing environments.

So for the best in CTI and Internet telephony applications, the Thor PCI Plus series delivers economy, value, and performance.

Thor-8-PCle



Feature Highlights

- 8 T1/E1/J1 interfaces. Software switchable between T1, E1, and J1.
- PCIe host bus interface.
- H.100 Computer Telephony bus interface.
- 32-bit data DMA burst feature significantly reduces host CPU load.
- Voltage and Frequency measurements of the T1/E1/J1 span.
- Signal amplifiers for attenuated T1/E1/J1 monitor conditions.
- Odin ASM daughterboard socket. Can be used with the following:
 - ⇒ Vidar-55x4-ASM: 4 x TI TMS320VC5510 DSP with 400 MIPS each.

Thor-8-PCIE 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 XP, 7, Windows 2003 and 2008 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

Board Specification	<ul style="list-style-type: none"> Thor-8-PCIE: Full-size PCIE board
Host Bus Interface	<ul style="list-style-type: none"> PCI Express r1.0a Single lane. Can also be plugged into multiple-lane PCIE slots. 32-bit burst DMA
Network Interfaces	<ul style="list-style-type: none"> 8 T1/J1 or E1 interfaces (software switchable) 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
HDLC Resources	<ul style="list-style-type: none"> Support for 1 HDLC channel 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 or ethernet
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 Transparent mode and programmable transmit pulse shape and input threshold Alarm insertion and detection, loop codes, channel loopback and PRBS T1/E1 span frequency measurement.
Phone Features	<ul style="list-style-type: none"> 4 analog interfaces (Codecs) for speaker, microphone, handset, or modem connections
Power Requirements/Environmental Data	<ul style="list-style-type: none"> Power consumption: 4.1W 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

Product Name/Product Category	Thor-8-PCIE/HAA-1097-1
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Contact Information

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