



Odin TeleSystems Inc.

*Open Telecom for
Open Minds*

The Odin Telecom Frameworks (OTX) family of industry award-winning products represents outstanding cost/performance value for today's service providers and telecom equipment manufacturers. Leading this product line for mobile applications are the Thor-2-PCMCIA and Thor-2-PCMCIA-Plus adapter cards.

With their ability to interface laptop and hand-held computers to T1/E1/J1 links, the Thor-2-PCMCIA series provide remarkably portable solutions. Whether you need reliable network testing and simulation capabilities or superior monitoring and maintenance, the Thor-2-PCMCIA cards deliver exceptional results in a completely mobile package.

Both cards offer software switchable convenience between T1, E1, and J1, and the Thor-2-PCMCIA-Plus packs a total of 240 MIPS of DSP processing power onto its incredibly compact footprint.

So for the best in mobile telephony applications, the Thor PCMCIA series delivers economy, value, and performance.

Thor-2 PCMCIA and Thor-2 PCMCIA-Plus



Thor-2-PCMCIA Adapter Cards for Mobile Applications

Feature Highlights

- 2 T1/E1/J1 interfaces. Software switchable between all modes
- High-impedance mode for monitor applications (Thor-2-PCMCIA)
- Software-switchable 20dB signal amplifier and high-impedance mode for monitor applications (Thor-2-PCMCIA-Plus)
- PCMCIA host bus interface
- Two on-board digital signal processors (DSPs) with 80 MIPS processing power each (Thor-2-PCMCIA)
- Two onboard DSPs with 120 MIPS processing power each (Thor-2-PCMCIA-Plus)
- Single bit error simulation mode (Thor-2-PCMCIA-Plus)

Thor-2-PCMCIA and Thor-2-PCMCIA-Plus 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 Thor-2-PCMCIA driver is available for Windows 98, Windows NT, Windows 2000, Windows XP, and Linux. 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"> • PCMCIA Type II card
<i>Host Bus Interface</i>	<ul style="list-style-type: none"> • PCMCIA electrical interface • I/O mapped, SW configurable IRQ
<i>Network Interfaces</i>	<ul style="list-style-type: none"> • 2 T1, E1, or J1 (software configurable)
<i>Line Termination</i>	<ul style="list-style-type: none"> • 75 Ohm and 100/120 Ohm or high impedance
<i>DSP</i>	<ul style="list-style-type: none"> • Thor-2-PCMCIA: 2 x TI TMS320C548 with 80 MIPS processing power each • Thor-2-PCMCIA-Plus: 2 x TI TMS320C549 with 120 MIPS processing power each
<i>DSP Programming Interface</i>	<ul style="list-style-type: none"> • Software development kit in ANSI C and C++ • Open interface with standard third-party tools
<i>DSP Applications</i>	<ul style="list-style-type: none"> • DTMF, MF, FSK, and generic tone (e.g., dial-tone and call progress tone) generation and detection • Speech compression, encoding and decoding • HDLC processing
<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) • Common channel
<i>Clocking sources</i>	<ul style="list-style-type: none"> • Onboard oscillator • Incoming T1/E1/J1 span
<i>Connector</i>	<ul style="list-style-type: none"> • RJ45/RJ48C in dongle (two dongles per board)
<i>Testing Features</i>	<ul style="list-style-type: none"> • Full access to F, Y, S₁, and S₂ 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
<i>EMC and Safety Testing/Certification</i>	<ul style="list-style-type: none"> • FCC Part 15 (CFR47, Part 15, Subpart B) • CE EMC (EN61326-1 Class B Equipment, AS/NZS 2064 Class B Limits) • Safety EN60950 and UL60950 (dongle only)
<i>Power Requirements/Environmental Data</i>	<ul style="list-style-type: none"> • Power consumption: 3.0W for Thor-2-PCMCIA; 2.8W for Thor-2-PCMCIA-Plus • 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

Ordering Information

<i>Product Name/Product Category</i>	Thor-2-PCMCIA/HAA-1012-1-1.0 Thor-2-PCMCIA-Plus/HAA-1043-1-1.0	
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Contact Information

<i>For more information on the Thor-2-PCMCIA and Thor-2-PCMCIA-Plus products, please contact:</i>	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
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