



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. Two powerful members of this product family are the Vidar-5x8-PCI and Vidar-5x16-PCI resource boards.

A high-density digital signal processing (DSP) board for PCI-based systems, the Vidar-PCI opens new possibilities in application areas such as IP telephony, computer telephony, wireless/cellular base stations and gateways, and intelligent networks. Or if you need reliable tone generation and detection, voice/data encoding and decoding, or dependable HDLC signaling, the Vidar-PCI delivers outstanding results.

This extensive range of application capability is powered by 8 or 16 Texas Instruments TMS320C548 DSPs, with a total of 640 or 1280 MIPS. With this kind of performance factor, the Vidar-5x16-PCI and Vidar-5x8-PCI provides excellent value in today's demanding computer telephony environment.

Vidar-5x8-PCI and Vidar-5x16-PCI




Vidar-5x16-PCI Resource Board

Feature Highlights

- 8 or 16 Texas Instruments TMS320C548 DSPs with 80 MIPS processing power each
- 4 analog front-ends for handsets and/or external speaker connections
- PCI host bus interface
- H.100 computer telephony bus interface
- Non-blocking time-space switch. Any time slot from the H.100 interface can be cross-connected for processing on any DSP. Any DSP can be connected to transmit on any H.100 time slot
- ASM (application specific module) daughter board socket

Vidar -5x8-PCI and Vidar -5x16-PCI Product Brief

Applications			
<p><i>Provides applications capabilities for the following, plus others:</i></p>	<ul style="list-style-type: none"> IP telephony Computer Telephony Wireless/cellular base stations, gateways Intelligent networks Tone generation/detection Voice/data encoding/decoding HDLC signaling 		
Software Support			
<p><i>Includes the OTX driver and the OTX Software Development Kits (SDK) for the host PC, and the DSP SDK for the on-board digital signal processors.</i></p>	<p>The OTX driver is available for Windows 98, Windows NT 4.0, Windows 2000, Windows XP, and Linux operating systems.</p>		
Technical Specifications			
<p><i>Host Bus Interface</i></p>	<ul style="list-style-type: none"> PCI Rev. 2.1 electrical interface PCI full-size form factor Memory mapped interface SW configurable IRQ and memory window 		
<p><i>H.100 Interface</i></p>	<ul style="list-style-type: none"> 32 x 8.196 Mbps highways 		
<p><i>DSP Resources</i></p>	<ul style="list-style-type: none"> 8 or 16 x TI TMS320C548; 80 MIPS processing power each 		
<p><i>DSP Memory</i></p>	<ul style="list-style-type: none"> 32 Kword internal on-chip (per DSP) Up to 256Kword external (per DSP) 		
<p><i>DSP Programming Interface</i></p>	<ul style="list-style-type: none"> Texas Instruments C and C++ Compiler, Assembler, Linker Texas Instruments Code Composer Studio debugger 		
<p><i>Included DSP Applications</i></p>	<ul style="list-style-type: none"> DTMF generation and detection MF generation and detection FSK detection HDLC sending/receiving Raw data sending/receiving 		
<p><i>Switching Matrix</i></p>	<ul style="list-style-type: none"> 2048x2048 byte time-space switch 		
<p><i>Clocking sources</i></p>	<ul style="list-style-type: none"> On-board oscillator H.100 bus 		
<p><i>Phone Features</i></p>	<ul style="list-style-type: none"> 4 analog interfaces (Codecs) for handset/speaker connections 		
<p><i>Power Requirements/Environmental Data</i></p>	<ul style="list-style-type: none"> Power consumption: 8.8W 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			
<p><i>Product Name/Product Category</i></p>	<p>Vidar-5x8-PCI/HAA-1025-1-1.0 Vidar-5x16-PCI/HAA-1020-1-1.0</p> <div style="text-align: right;">  </div>		
Contact Information			
<p><i>For more information on the Vidar-5x8-PCI and Vidar-5x16-PCI please contact:</i></p>	<table style="width: 100%; border: none;"> <tr> <td style="width: 60%; border: none;"> <p>Odin TeleSystems Inc. 800 E. Campbell Road, Suite 334 Richardson, TX 75081-1873 USA</p> </td> <td style="width: 40%; border: none; vertical-align: top;"> <p>Tel: +1-972-664-0100 Tel: 1-888-ODINTSM Fax: +1-972-664-0855 Email: info@odinTS.com Web: www.odinTS.com</p> </td> </tr> </table>	<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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