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

Provides applications capabilities for the following, plus others:	- IP telephony - Computer Telephony - Wireless/cellular base stations, gateways - Intelligent networks - Tone generation/detection - Voice/data encoding/decoding - HDLC signaling

Software Support

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.	The OTX driver is available for Windows 98, Windows NT 4.0, Windows 2000, Windows XP, and Linux operating systems.

Technical Specifications

Host Bus Interface	- PCI Rev. 2.1 electrical interface - PCI full-size form factor - Memory mapped interface - SW configurable IRQ and memory window
H.100 Interface	32 x 8.196 Mbps highways
DSP Resources	8 or 16 x TI TMS320C548; 80 MIPS processing power each
DSP Memory	32 Kword internal on-chip (per DSP) - Up to 256Kword external (per DSP)
DSP Programming Interface	- Texas Instruments C and C++ Compiler, Assembler, Linker - Texas Instruments Code Composer Studio debugger
Included DSP Applications	- DTMF generation and detection - MF generation and detection - FSK detection - HDLC sending/receiving - Raw data sending/receiving
Switching Matrix	2048x2048 byte time-space switch
Clocking sources	- On-board oscillator - H.100 bus
Phone Features	4 analog interfaces (Codecs) for handset/speaker connections
Power Requirements/Environmental Data	- 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

Product Name/Product Category	Vidar-5x8-PCI/HAA-1025-1-1.0 Vidar-5x16-PCI/HAA-1020-1-1.0

Contact Information

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