Odin TeleSystems Inc.

Open Telecom for Open Minds

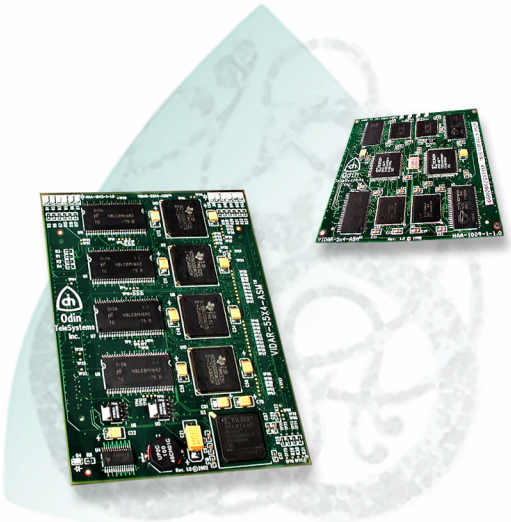
Vidar 5x4-ASM and Vidar 55x4-ASM

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. Leading this product line for a variety of voice and data applications are the Vidar-5x4-ASM and Vidar-55x4-ASM daughterboards.

The Vidar products can be attached to network interface cards within the OTX adapter family, providing powerful DSP resources. Whether you need reliable tone generation and detection, or voice/data encoding and decoding, or dependable HDLC signaling, the Vidar-ASM daughterboards deliver exceptional results.

And for the more powerful processing required for VoIP applications and data programming and storage, the Vidar-55x4-ASM commands a full 1600 MIPS performance factor through its leading-edge Texas Instruments DSPs.

So for the best in DSP resourcing and Internet telephony application capability, the Vidar-5x4-ASM and Vidar-55x4-ASM deliver true value and top performance.



Vidar-5x4-ASM and Vidar-55x4-ASM Daughterboards for OTX Adapters

Feature Highlights

- 4 Texas Instruments TMS320VC5510 DSPs with 400 MIPS processing power each (Vidar-55x4-ASM)
- 4 Texas Instruments TMS320C548/549 DSPs with 80 MIPS processing power each (Vidar-5x4-ASM)
- 16 MB (8 MWords) external SDRAM memory per DSP (Vidar-55x4-ASM)
- 128KB (64 KWords) external SDRAM per DSP (Vidar-5x4-ASM)
- Odin ASM (application specific module) interface:
  - ⇒ Data: 4 PCM highways
  - ⇒ Control: 16-bit processor bus

Vidar-5x4-ASM and Vidar-55x4-ASM Product Brief

Applications

Provides applications capabilities for the following, plus others:	• Tone generation/detection • Voice/data encoding/decoding • HDLC signaling • VoIP (Vidar-55x4-ASM)

Technical Specifications

Board Connector	• Odin ASM interface
Data Interface	• 4 x 2/4 Mbit/s PCM highways switchable in the time-space switch of the host board
Control Interface	• Odin ASM 16-bit processor bus. Memory mapped to the host
DSP Resources	• Vidar-5x4-ASM: 4 x TI TMS320C548/549; 80 MIPS processing power each • Vidar-55x4-ASM: 4 x TI TMS320VC5510; 400 MIPS processing power each
DSP Memory	• Vidar-5x4-ASM: 32 Kword internal RAM per DSP 64 Kword (128KB) external per DSP • Vidar-55x4-ASM: 160 Kword internal RAM per DSP 8 Mword (16MB) external SDRAM per DSP
DSP Programming Interface	• Texas Instruments C and C++ Compiler, Assembler, Linker • Texas Instruments Code Composer Studio debugger
Debugging Interface	• JTAG connection on host card, which allows connectivity to standard third-party emulator cards
Power Requirements/Environmental Data	• Power consumption: 2.2W • Temperature: operating, 0° C to +50° C; non-operating, -40° C to +60° C • Humidity: operating, 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; non-operating, 5% to 80% RH at up to +30° C, and 5% to 30% RH above +30° C up to +50° C non-condensing • Altitude: operating, up to 4,600 meters (15,333 feet); non-operating, up to 12,192 meters (50,000 feet)

Ordering Information

Product Name/Product Category	Vidar-5x4-ASM/HAA-1009-1-1.0 Vidar-55x4-ASM/HAA-1045-1-1.0

Contact Information

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2020-1-HCA-1009-1-1.0-1.0