



Odin TeleSystems Inc.

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The Godar-2-PCIE is a dual OC-3/STM-1 SONET/SDH network interface highly suitable for analysis applications as well as emulation applications in a PCIe PC host system.

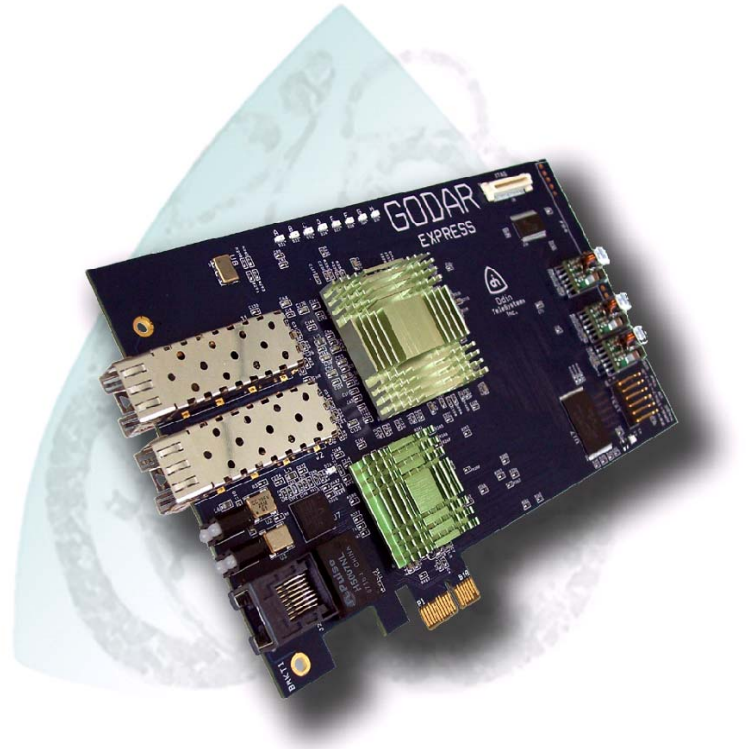
Godar-2-PCIE is equipped with two OC-3/STM-1 SONET/SDH network interfaces (working/protect).

The Mapper Subsystem of Godar-2-PCIE is used to map and demap T1 and E1 signals to/from SONET/SDH tributaries. The board supports bit-asynchronous and byte-synchronous mapping/demapping of an STS-6/2xSTM-1 worth of T1 or E1 tributaries. This translates to 168 T1s or 126 E1s. The selection of T1 or E1 can be controlled on a per STS-1/STM-0 basis and the selection of bit-asynchronous or byte-synchronous can be controlled on a per-tributary basis.

Godar-2-PCIE seamlessly transfers the mapped E1 or T1 signals to and from the host PC over the PCIe interface using a zero-copy DMA method.

This board is a member of the Odin Telecom Frameworks (OTX) product family. OTX is an industry award-winning platform for various telephony adapter boards.

Godar-2-PCIE



Godar-2-PCIE Adapter for demanding OC-3/STM-1 communication applications

Feature Highlights

- 2 OC-3/STM-1 SONET/SDH framers (working and protection).
- Complete SONET/SDH front end with T1/E1, DS3/E3 framers/mappers/multiplexers.
- 168 T1/126 E1 framers.
- Tributary path processor for 168 VT1.5/TU-11s or 126 VT2/TU-12s.
- 6 M13 multiplexers, including support for G.747 multiplexing.
- High order path processor for a SONET STS-3 or an SDH STM-1.
- Supports advanced test features including programmable pattern generation and detection for up to 64 byte sequences.
- Byte synchronous and bit asynchronous mapper for 168 VT1.5/TU-11s or 126 VT2/TU-12s.

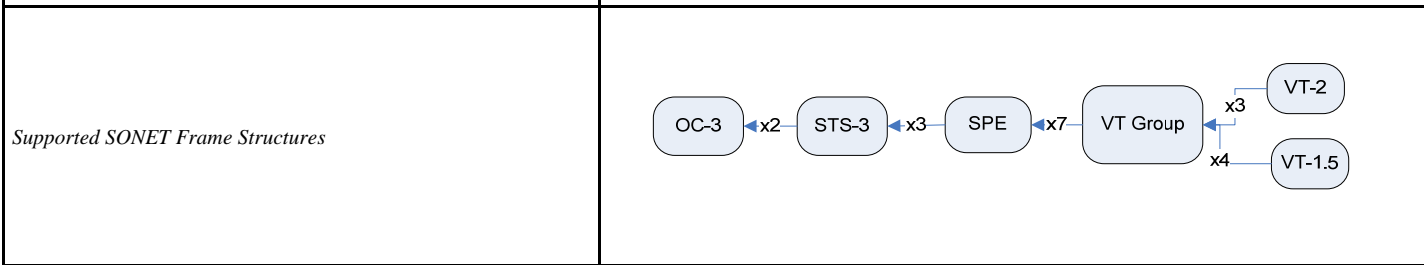
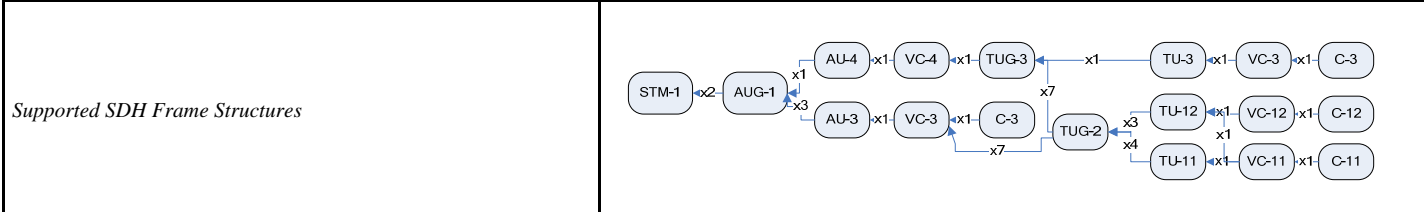
Godar-2-PCIe Product Brief

Software Support

Includes the OTX software driver, the OTX software development kits (SDKs), as well as a variety of host demo applications	The OTX driver is available for Windows XP, Windows 2003 Server, Windows 2008 Server, Windows 7, and Linux operating systems.
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Technical Specifications

Board Specification	<ul style="list-style-type: none"> Half-size PCI-Express board
Host Bus Interface	<ul style="list-style-type: none"> Supports PCI Express v1.1 (single lane) Zero-copy DMA
Network Interfaces	<ul style="list-style-type: none"> 2 OC-3/STM-1 SONET/SDH interfaces
Ethernet (future)	<ul style="list-style-type: none"> 1 Gb Ethernet interface



Mapper Features	<ul style="list-style-type: none"> Byte Synchronous Bit Asynchronous
Connector	<ul style="list-style-type: none"> 2 Small Form-Factor Pluggable (SFP) receptacles
Line Events	<ul style="list-style-type: none"> Accumulates the following events: line code violation (LCV), parity error (PERR), path parity error (CPERR), remote error indication (REI, previously referred to as FEBE), excess zeros (EXZS), and framing bit error (FERR).
Pseudo-Random Sequence Generator/Detector	<ul style="list-style-type: none"> Generates any pseudo-random pattern up to 232-1 bits in length or any user programmable bit pattern from 1 to 32 bits in length. Can insert single bit errors or a bit error rate between 10-1 to 10-7

Power Requirements/Environmental Data	<ul style="list-style-type: none"> Power consumption: TBD 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)
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Ordering Information

Product Name/Product Category	Godar-2-PCIe/HAA-1092-1 Two optical interfaces
	Godar-1-PCIe/HAA-1091-1 One optical interface

Contact Information

For more information on the Godar-2-PCI-Express products, please contact:	<p>Odin TeleSystems Inc. 800 E. Campbell Road, Suite 334 Richardson, TX 75081-1873 USA</p> <p style="text-align: right;">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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