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Intel® NetStructure™ ZT 4901 I/O Mezzanine Expansion Card

Intel in Communications

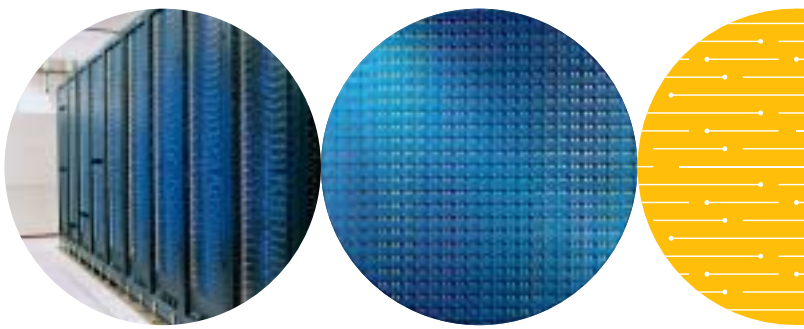
Product Overview

This 6U, single-slot mezzanine card is designed to work with the Intel® NetStructure™ ZT 5524 High-performance System Master Processor Board. The ZT 4901 card attaches to the ZT 5524 board and interfaces to the system backplane via a standard CompactPCI* slot. It enhances the capabilities of the ZT 5524 board by providing two PMC sites, a dual optical Fibre Channel interface, and CompactPCI bridging at 33 or 66 MHz. The use of two ZT 4901 cards, along with two ZT 5524 boards, enables redundant host processor operation in the Intel NetStructure ZT 5085 12U Redundant Host Packet Switched Platform.



Product Highlights

- Form Factor: 6U x 4HP (1-slot). Pairs with the ZT 5524 High-performance Processor Board to form a two-board complex that occupies two slots.
- Dual PMC Sites: Two 64-bit 66 MHz PCI mezzanine card slots for mezzanine expansion modules that conform to the IEEE 1386.1 standard.
- Dual Fibre Channel: Dual 2Gb Fibre Channel interface available at the front panel and the J5 rear-panel I/O connector. Small Form Factor Pluggable (SFP) connectors are provided at the front panel to support either optical or copper Storage Area Network (SAN) implementations.

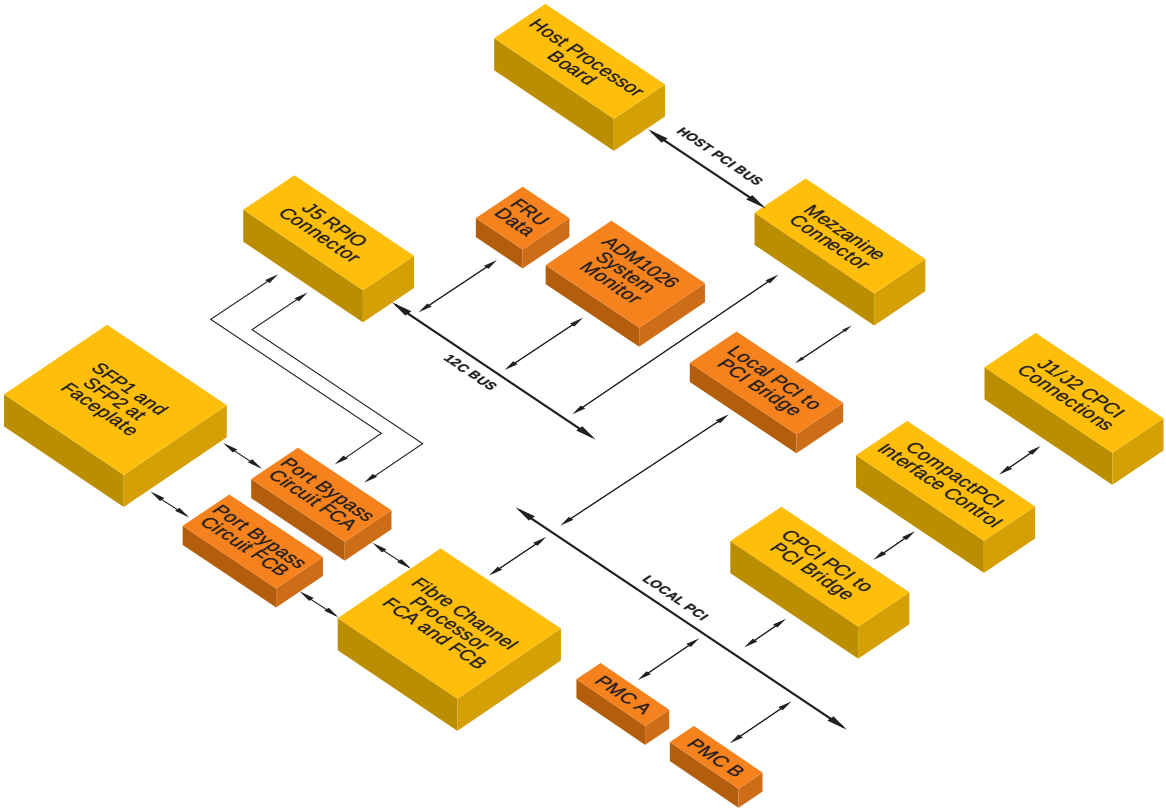


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Product Highlights (continuued)

- CompactPCI* Bridging: The ZT 4901 card, when attached to a ZT 5524 processor board, can operate as a CompactPCI system master. This allows the ZT 5524 host processor board to master a second 33 or 66 MHz CompactPCI bus segment. Or when isolated from the CompactPCI bus it can operate in drone mode when installed in a peripheral slot.
- Redundant Host Processor: Two ZT 4901 cards support redundant host processor operation when joined with two ZT 5524 boards in a ZT 5085 platform.
- IPMI Management: On-board health monitoring via private I²C BMC interface on the ZT 5524 host board.
- Compatibility: Compatible with PICMG* 2.0 R3, 2.16, and 2.9 specifications.

Block Diagram



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Specifications

The most current product specifications and order options are posted on the Web version of this product brief:
developer.intel.com/design/network/products/cbp/linecard.htm

Power Requirements	Minimum	Typical	Maximum
▪ Supply Voltage, Vcc	4.85V	5.00V	5.25V
▪ Supply Voltage, Vcc3	3.20V	3.30V	3.47V
▪ Supply Voltage, +12V (PMC only)	10.8V	12.00V	13.2V
▪ Supply Voltage, –12V (PMC 0nly)	–13.2V	–12.00V	–10.8V
▪ Supply Current, Icc=5.0V		1.34A	
▪ Supply Current, Icc3=3.3V		1.75A	
▪ Supply Current, +12V	1A maximum (used only by PMC sites)		
▪ Supply Current, –12V	1A maximum (used only by PMC sites)		

Mechanical

- Measures 9.2" x 6.4" (233.35mm x 160mm)
- J1-J5 Connector: IEC-1076-4-101
- J6-J7 Connector: Small Form Factor Pluggable (SFP) sockets for Fibre Channel
- Mezzanine Connector: 192-pin, male (J10)
- Height: .8" plus board-to-board mezzanine connector (one slot; occupies two slots when mated to the ZT 5524)
- Weight: 9.6 oz.

Environmental

- Operating Temperature: +5 to +55 C with minimum of 200 LFM airflow
- Storage Temperature: –40 to +85 C
- Relative Humidity: < 95% at 40 C, non-condensing

Regulatory Compliance	
▪ Safety	UL 1950 (USA) C-UL 1950 (Canada) EN/IEC 60950 (Europe) CE Mark
▪ EMC	FCC 47, Part 15, Subpart B, Class A (USA) EN 55022 EMC Directive / EEC Emissions and Immunity (Europe) EN 61000, Immunity CISPR 22 Information Technology Equipment
▪ NEBS	The ZT 4901 I/O Mezzanine Expansion Card meets or exceeds the following Network Equipment Building System (NEBS) Level 3 requirements when utilized within a NEBS-compliant system: GR-1089-CORE EMC Section 2 and 3, Electromagnetic Compatibility

Product Order Codes	Description
ZT 4901A-1A	ZT 4901 I/O Mezzanine Expansion Card with Dual Fibre Channel interface

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