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INTERPHASE
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*i*SPAN® 4532P PMC ATM over OC-3c/STM-1 Interface Card

APPLICATIONS

ATM to IP Gateways
Voice over ATM
BSCs/RNCs
Routes
Broadband Wireless
3rd Generation Wireless
Broadband Optical Networks
Softswitches
Base Transmission Station/Node B
Internet Access

FEATURES

PCI Telecom Mezzanine Card Configuration 4 (PT4MC) form factor works as part of a blade solution with intelligent carrier cards such as the Interphase *i*NAV® 4000 Network Processor Blade

Protocol support for ATM AAL0, 2 and 5

Single or Dual 155 Mbps OC-3c/STM-1 interfaces, software selectable

Automatic Protection Switching (APS) for path guarantees and network resiliency

620 Mbps aggregated throughput under normal operation

Busses:
- Local PCI bus
- UTOPIA 2 16-bit bus
- TDM busses

Long-range single-mode, intermediate-range single-mode, or multi-mode optical interfaces

Stratum 4E telecom clock management

The *i*SPAN® 4532P PMC ATM over OC-3c/STM-1 Interface Card is designed for carrier-class telecommunication networks supporting the most demanding ATM applications including third generation wireless gateways, media gateways, broadband Internet gateways, and integrated voice and data over carrier and enterprise ATM backbones.

This single or dual-port OC-3c/STM-1 ATM line interface is an embedded blade component that works with intelligent carrier cards such as the revolutionary Interphase *i*NAV® 4000 Network Processor Blade. When coupled with the *i*NAV 4000, the industry's first network processor card that is fully compliant to PICMG® 2.16 Gigabit Ethernet CompactPCI® Packet Switching Backplane (CPSB) standards, the solution provides for interworking between ATM and Ethernet networks. By seamlessly bridging circuit switched and packet switched networks, the solution of the *i*NAV 4000 and the *i*SPAN 4532P performs a "gateway-on-a-blade" function for user plane traffic. The solution handles system-level functions on a single slot and achieves unparalleled performance in ATM and Ethernet payload processing.

02/07/05

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*i*SPAN 4532P Interface Card

4532P Architecture

The *i*SPAN 4532P PMC ATM over OC-3c/STM-1 Communications Interface Card works in conjunction with the Interphase *i*NAV 4000 Network Processor Blade for carrier-class telecommunications environments. The software selectable interfaces for SONET OC-3c or SDH STM-1 makes the 4532P a universal interface module and enables maximum flexibility to support multiple international standard variants with just one board.

Mindspeed™ CX28250 ATM OC-3c/STM-1 Framers

The Mindspeed CX28250 is an OC-3c/STM-1 PHY device with an integrated clock and data recovery unit. It provides optimized SONET framer functions for mapping ATM cells to SONET payloads.

PCI Interface

- 32-bit, 33 MHz PCI interface
- PCI 2.2 target bus interface
- PLX 9030 target only PCI bridge

UTOPIA 2 Bus

- UTOPIA Level 2 bus tied from PMC P3/P4 (in compliance with PICMG 2.15 PT4MC pinout) to the two CX28250 framers
- 16-bit UTOPIA Level 2 ATM bus is according to PICMG® 2.15 option 4 bus at up to 40 MHz (also 8-bit UTOPIA Level 2 if required)

I/O

- One or two software selectable OC-3c/STM-1 interfaces on front panel
- Long-range single-mode, intermediate-range single-mode, or short-range multi-mode fiber interfaces available
- ATM Over WAN SONET framer supports direct connection to long haul optical network
- Support for SONET and SDH overhead channels, including facility Data Link channels, Automatic Protection Switching (APS), alarms and indications, error and performance monitoring

Interphase Customer Service and Support

All Interphase products are backed by support programs designed to deliver maximized uptime for our customers worldwide. Included are standard and extended product warranty packages, standard and enhanced "7x24" live technical assistance, and free Web-based online support for the life of the product, including technical notes, downloadable driver enhancements, and information on new product releases. Interphase customer support ensures investment protection for your networking, remote access and mass storage connectivity.

Tech Specs

Architecture	
Bus Type	PCI 2.1 Compliant
Data Transfer	32-bit
Mechanical	
Length	149.0 mm (5.9 in.)
Width	74.0 mm (2.9 in.)
Indicators	Board Operational, Link Active
Operating Environment	
Power Consumption	Less than 6.0 W
Temperature	0 to 55 °C (32 to 131 °F)
Relative Humidity	5% to 95% non-condensing
Altitude	0 to 15,000 ft.

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4532P PMC ATM over OC-3c/STM-1 Interface Card

Configuration Options

The 4532P Interface Card is available in the following configurations:

CONFIGURATION	DESCRIPTION
4532P-000	Two port, Single-mode fiber (long reach) interfaces
4532P-001	Two port, Single-mode fiber (intermediate reach) interfaces
4532P-002	Two port, Multi-mode fiber interfaces
4532P-005	One port, Single-mode fiber interface
4532P-006	One port, Single-mode fiber (intermediate reach) interface
4532P-007	One port, Multi-mode fiber interface

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Notes

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