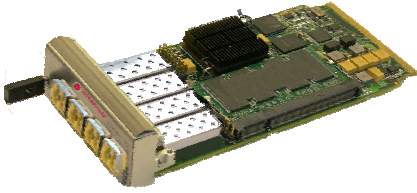




iSPAN® 3650 AdvancedMC™ Quad OC-3/STM-1 ATM - GbE Interworking Card

Price/Performance Maximized Wide Area ATM Connectivity



FEATURES

Four OC-3/STM-1 or two OC-12/STM-4 interfaces

Gigabit Ethernet or PCI-Express x1 as AdvancedMC Control Interface (AdvancedMC Common Option)

Wintegra™ WinPath2™ on-board network processor

Supports ATM and PPP over SONET (POS)

Interchangeable SFP Transceivers

1+1, 1:1, and 1:N APS support on the four OC-3/STM-1 ports

APS port provided on AdvancedMC port 12 for more than 1:3 APS scheme or for APS at the OC-12 rate

Telecom clocks can be input and output on AdvancedMC CLK1 and CLK2 for master or slave synchronization

APPLICATIONS

IP traffic interworking between

ATM AAL5 and Ethernet

Routers/Bridges

SGSN/GGSN (Mobile Core Network)

Video Conferencing

Gateways

DSLAMs

BSC/RNC

Intelligent I/O

The iSPAN® 3650 AdvancedMC Quad OC-3/STM-1 Interworking Card is part of a new paradigm in communications processing subsystems. Based on the easy to program Wintegra™ WinPath2™ Packet Processor, which is purpose-built for I/O processing tasks in network access environments, the iSPAN 3650 offers an extensive set of protocols and multi-protocol interworking that reduce application development cycles and improve time to market.

Gateway on a Card

For bridging cell-based and circuit-based networks, the iSPAN 3650 delivers unprecedented performance in IP traffic interworking between ATM AAL5 and Ethernet with its gateway-on-a-card capability. Additional pre-developed stacks such as GTP-U, MPLS, etc., will be available in the future. Specialized functions include packet routing/classification, simple ATM Segmentation and Reassembling (SARing), and ATM cell grooming to aggregate line traffic for consolidating lines.

High Performance

Available with a robust suite of software including pre-developed protocols and interworking, tools for custom application development, and flexible configuration and management capabilities, the iSPAN 3650 is a versatile, high performance solution that can solve a wide variety of communications network problems faced today. The iSPAN 3650 supports:

- 36,000 PVCs
- 1 M/s AAL2 CPS packets
- 50,000 Active CIDs supported for AAL2 PVCs
- Full wire speed operation

Multi-Protocol Support

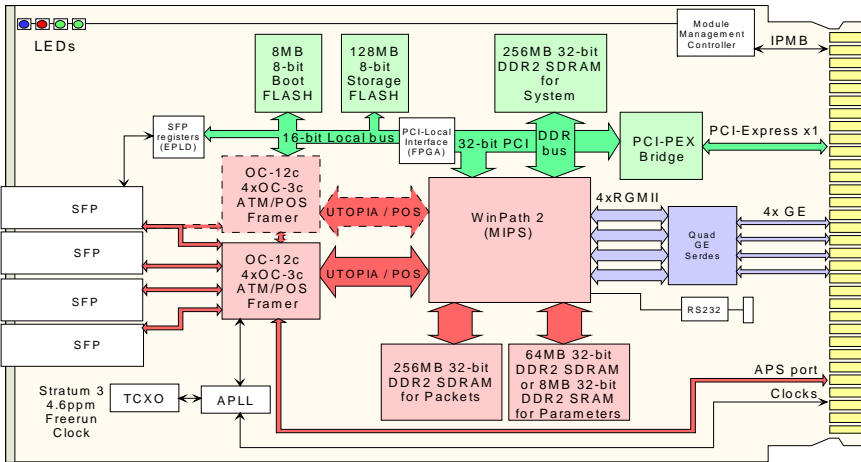
- Termination of AAL1, AAL2 and AAL5
- IP traffic interworking between ATM AAL5 and Ethernet
- SFP.0
- PPP over SONET/SDH
- 3GPP GTP-U encapsulation over IP
- B-ISDN ATM adaptation layer (SSCOP, SSCF at NNI)
- MTP3 Functions and Messages
- Virtual path level traffic shaping

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iSPAN[®] 3650

Powerful Features for Next-Generation Telecom Applications



The iSPAN 3650 AdvancedMC Quad OC-3/STM-1 Network Interface Card is designed around a Wintegra WinPath2 Network Processor. It connects to the fabric interface via four Gigabit Ethernet Serial Links (1000Base-BX) and to the control interface via a PCI-Express x1 or Gigabit Ethernet control link. The WinPath2 network processor allows full support of various communications protocols, reducing host CPU processing. The Embedded MIPS 24K 450 MHz processor can be enabled for on board control processing or disabled to integrate with external control CPU.

Applications

Interphase provides ready-to-use application / protocol suites that transform the 3650 into a specialized communications interface which can be integrated into solution platforms. All these applications provide a CLI, accessible through TTY or telnet, for configuring the 3650 software, and support SNMP to more easily integrate the 3650 in platform management systems. The supported operating system is Linux®.

Custom Development

Additional applications / protocols can be supported with custom software development, integration, and consulting services provided by the Interphase Professional Services Group. With over 150 staff years of development experienced amassed, the professional services team offers everything from completely custom development to merely customizing standard Interphase products to meet your specific needs.

Technical Specifications

Architecture

Processor	WinPath2
RAM Memory	256MB DDR2 SDRAM (packet buffering) 64 MB DDR2 SDRAM or 8MB SRAM (parameters) 256 MB DDR2 SDRAM (system memory)
ROM Memory	8 MB NOR Flash, 128 MB NAND Flash
Connectivity	AMC.1 Type 1 / AMC.2 Type E2 & AMC.2 Type 2 APS on Port 12

SONET / SDH SFP Interfaces

Quad OC-3/STM-1 or Dual OC-12 / STM-4 - ATM and POS
- 1+1, 1:1, and 1:N APS for OC-3 / STM-1 and OC-12 / STM-4 signals
• High-order path overhead processing at VC-3 / VC-4 / VC-4-Xc / STS-1 / STS-3c / ST-6c / STS-12c SPE levels

Telecom Clock Management

Three line synchronization modes:
• Free running internal clock
• Recovered clock (loop back timing)
• Network reference (via AdvancedMC CLK1 or CLK2).
• Recovered clock from one of the OC-3 ports can be forwarded to CLK1/and/or CLK2

Mechanical Form

Factor	AdvancedMC Mid-size Module
Length	181.5 mm (7.15 in.)
Width	73.5 mm (2.89 in.) (single-width)

Operating Environment

Power Consumption	23.5 W @ 12V
Temperature	0 to 55° C (32 to 131° F) ambient
Storage Range	-40 to 80° C (-40 to 176° F)
Relative Humidity	5% to 95% non-condensing
Altitude	0 to 15,000 ft.

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About Interphase Corporation

Interphase Corporation (NASDAQ: INPH) is a leading provider of robust building blocks, highly integrated subsystems and innovative gateway appliances for the converged communications network. Building on a 30-year history of providing advanced I/O solutions for telecom and enterprise applications and addressing the need for high speed connectivity, Interphase has established a key leadership role in delivering next generation AdvancedTCA[®] and AdvancedMC[™] solutions to the marketplace.

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