PRODUCT INFORMATION

Ascend

B-STDX 8000/9000
Channelized DS3 I/O Module



The Channelized DS3 I/O Module for the B-STDX 8000 and 9000 Multiservice WAN Switches provides the highest T1 port density in the industry. The Channelized DS3 interface supports up to 28 T1 connections per module providing today's most cost-effective and scalable solution for concentrating multiple circuits, saving space and easing cabling and network management. The module enables remote provisioning of central office DACS and multiplexer equipment, decreasing provisioning time and operational complexity. The module design includes an integral M1/3 multiplexer providing fractional T1 connectivity at variable data rates from 56 Kbps through 1.54 Mbps.

With its 16-slot modular architecture, the B-STDX switches are capable of an industry-leading 392 T1 ports per switch. The Channelized DS3 I/O Module delivers comprehensive diagnostic and performance monitoring capabilities to the B-STDX platform. Each module contains a RISC processor for high performance and flash memory for easy field installation of new capabilities. In addition, the B-STDX supports the industry's highest number of simultaneous virtual circuits.

High-density architecture provides maximum support

The Channelized DS3 I/O Module provides the industry's highest T1 port density with a channelized T3 interface supporting up to 28 individual T1s for frame-based traffic. It supports M13 and C-Bit parity formats for translation of T3 to and from 28 T1 serial links.

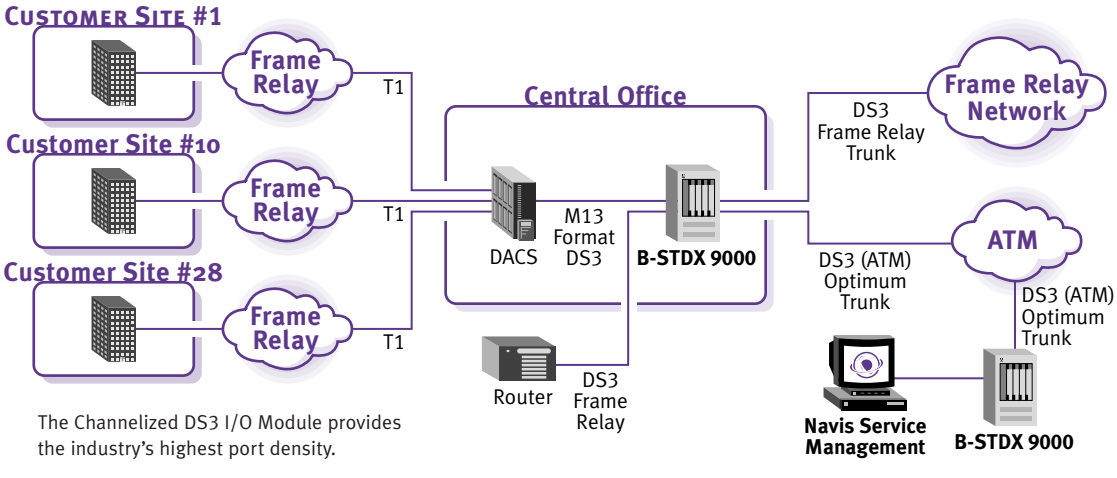
- Industry-leading T1 port and switch density
- Fractional T1 support for N x 56/64 Kbps
- Distributed processing allows performance to scale with port density
- Integral multiplexing capability through M1/3 or C-bit parity support

Flexibility and reliability provide superior operation

The Channelized DS3 I/O Module allows ports to be user or trunk interfaces. The module supports onboard testing and diagnostic capability on any selected DS1 link and provides for comprehensive link performance monitoring and statistics. The Channelized DS3 I/O Module supports external, looped time or internal clock input. Hot swap and live insertion capabilities ensure maximum network uptime and rapid upgrade time.

- T1 and T3 line and payload loopback
- Per T1 Bit Error Rate Testing (BERT)
- Comprehensive performance monitoring
- External, looped time or internal clock input

Cost-effective and scalable solution



The Channelized DS3 I/O Module provides the industry's highest port density.

Carrier-class switches ensure high availability, reliability and scalability

Ascend products offer superior scalability, high network availability and maximum reliability in mission-critical carrier-class environments. Exceptional QoS support with Priority Frame and Priority Reroute capabilities provides different levels of service for emerging applications. Superior design supports growing networks with leading edge hardware and shared software components. The powerful hardware architecture delivers exceptional scalability for high-bandwidth transmission environments or high port density configurations.

- Fault tolerant Permanent Virtual Circuits and Switched Virtual Circuits
- Fast circuit setup and rerouting

Powerful management provides advanced network control

Navis™ network and service management software lets service providers deliver new networking services to business and enterprise customers more quickly and profitably. Sophisticated applications deliver add-on functions such as service level agreements and real-time statistics monitoring. Exceptional management of Ascend networking nodes, using industry-standard protocols, builds seamless network management across Ascend core switching products for all network services: ATM, Frame Relay, IP private line and ISDN.

- Multiservice management from a single platform
- Extensive configuration, performance management and security support
- Reduced operating costs

Managed by Navis™

Specifications

Physical dimensions	Size 15 in x 1 in x 10 in [38.1 cm x 2.5 cm x 25.4 cm]	
Power requirements	35 watts	
Agency approvals	Electromagnetic Emissions Certifications EN55022 (CISPR Class A) FCC Part 15 Class A NEBS GR-63-CORE, GR-1089-CORE UL 1950, EN60950	
Temperature range	32 – 144°F [0 – 50°C]	
Physical interfaces	1 Channelized DS3 (44.736 Mbps) port Input clock source: RJ-48 or wire wrap connection	
Connectors	Dual 75 ohm BNC connector RJ-48 8-pin modular connector	
Interface standards	ANSI T1.102 AT&T Publication 62415 FRF	
DS3 standards	ANSI T1.103 ANSI T1.107 ANSI T1.107a ANSI T1.231	ANSI T1M1.3/91-003R3 Bellcore TR-NWT-000499 AT&T TR54016 RFC 1407
DS1 standards	AT&T Publication 62411 Bellcore TR-TSY-000312 Bellcore TR-NWT-000499	ANSI T1.403 ANSI T1.107 RFC 1406
Loopbacks	Line and Payload Loopback BERT test at DS1 level	

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Ascend Communications, Inc. develops, manufactures and sells wide area networking solutions for telecommunications carriers, Internet service providers and corporate customers worldwide. For more information about Ascend and its products, please visit the Ascend Web site at http://www.ascend.com, or e-mail info@ascend.com.

Ascend markets the B-STDX, CBX, GRF, GX, IP, MAX, Multiband, MultiDSL, Navis, Pipeline, SA, SecureConnect and STDX families of products. Ascend products are available in more than 40 countries worldwide.

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