PRODUCT INFORMATION

Ascend

B-STDX 8000/9000
2-Port HSSI I/O Module



The 2-Port High-Speed Serial Interface (HSSI) I/O Module is an option for the B-STDX 8000/9000 Multiservice WAN Switches. The flexibility of the module provides a cost-effective solution for supporting high-speed connectivity to public and private networks.

Superior features provide standards-based, high-performance solutions

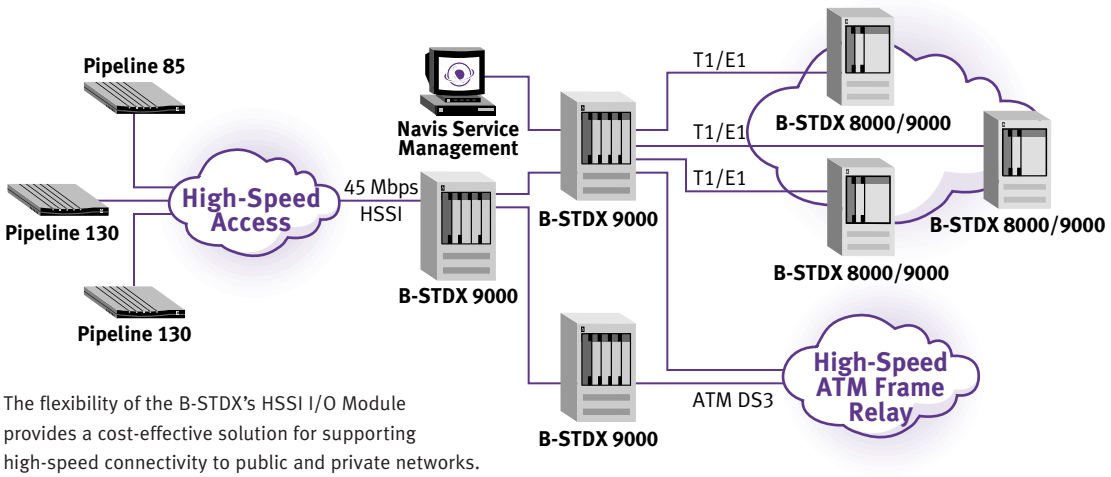
With outstanding unsurpassed scalability and reliability, the 2-Port HSSI I/O Module provides the most comprehensive standards support available today. Ascend has always been standards-compliant and offers the broadest support of Frame Relay to ATM Service Interworking (FRF.8) and Frame Relay to ATM Network Interworking (FRF.5), Frame Relay QoS and MultiLink Frame Relay. The 2-Port HSSI module also supports Local Management Interface (LMI) per ITU-T Annex A, ANSI Annex D and the new Frame Relay Forum UNI 1A (FRF1.1) to deliver Frame Relay access at rates up to T3 speeds.

The module provides switched networking connections at data rates up to 45 Mbps. The module enables B-STDX switches to connect CPE devices to the network at LAN speeds. Using a high-speed serial interface connection, it can also provide a high-speed trunk between Ascend switches or a feeder link into a backbone Central Office class switch. The module allows non-Frame Relay High-level Data Link Control (HDLC) and Synchronous Data Link Control (SDLC) connections via direct FRAD and translated FRAD (PPP-FRC 1490).

In addition, the module furnishes 5000 Virtual Connections (VCs) per module. The high-density, high-performance module provides not only congestion avoidance, but also congestion management with outstanding throughput. Virtual Network Navigator (VNN) (Ascend's enhanced version of OSPF) provides superior service delivery and seamless data transmission across complex networks by establishing the optimum path to support a customer's level of service guarantees. Built-in redundancy provides automatic reroute of all circuits to an alternate path when necessary. The network path supports VC service class requirements based on available bandwidth, network delay, buffer availability and administrative cost. Providers can now offer services with differing characteristics, depending on the application or their customers' requirements.

- Standards-based
- High-speed access
- FR PVC and SVC support
- Standards-based policing
- Per VC queuing
- High performance/PVC throughput
- Industry-leading port density

B-STDX 8000/9000 2-port high-speed serial interface I/O module



The flexibility of the B-STDX's HSSI I/O Module provides a cost-effective solution for supporting high-speed connectivity to public and private networks.

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	15 in x 1 in x 10 in [38.1 cm x 2.54 cm x 25.4 cm]
Weight	3 lb [1.35 kg]
Power requirements	45 watts
Input power	-48V DC
Temperature range	32° – 122°F [0° – 50°C]
Agency approvals	Electromagnetic Emissions Certifications: - FCC Part 15 Class A - EN55022 (CISPR Class A)
Physical interfaces	Two Amplimite 50-pin receptacles
Interface standards	ITU-T I.233, I.365.1, I.370, I.371, I.372, I.555, Q.922A, Q.933A ANSI TI.606, TI.617, TI.618, TI.634 FRF 1.1, FRF 2.1, FRF 3.1, FRF .5, FRF .6, FRF .8 HSSI design specification rev 2.11 Line coding: NRZ Framing: HDLC Network interfaces: - Data rate 1.58 – 44.21 Mbps Programmable as DCE or DTE
Loopbacks	DCE: Provides loopback based on LA, LB signals DTE: Requests loopback using LA, LB signals

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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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