B-STDX 9000

Ethernet 10/100Base-T I/O Module

The Ethernet 10/100Base-T I/O Module for the B-STDX 9000 Multiservice WAN Switch provides high speed Ethernet access to the Ascend switching fabric. Operating as a standard IP routing interface, when used with IP Navigator™, the 10/100 Processor provides users with a high-speed interface to Ascend's IP Switch (GRF) and MAX TNT family and/or high-speed links to local Internet/Intranet hosting servers.
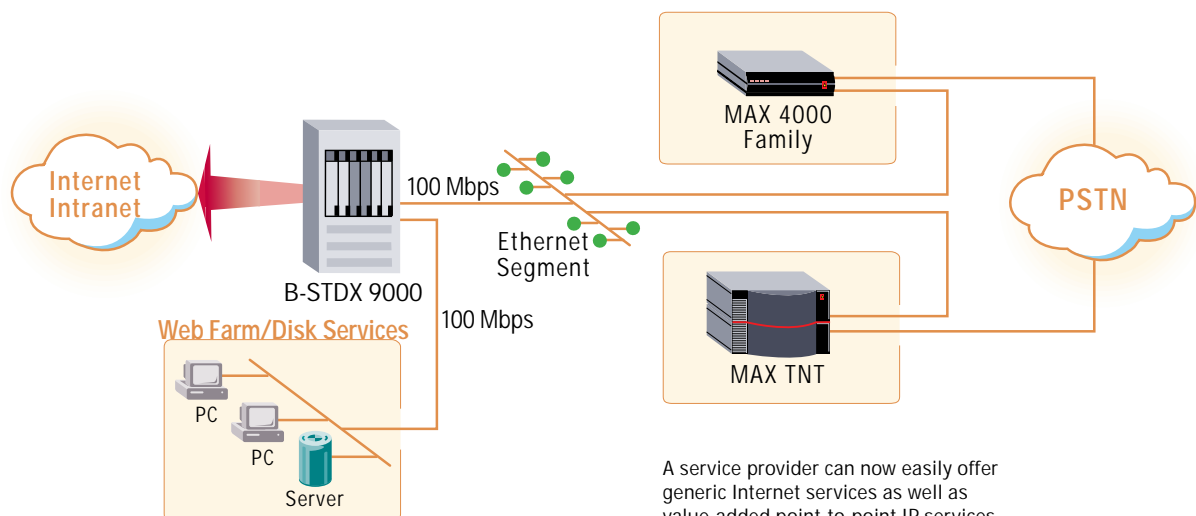
Supplies Internet services and value-added services

The 10/100 Ethernet I/O module enables a service provider to easily offer both Internet hosting services and value-added IP routing services that are inherent in IP Navigator. IP traffic received from the Ethernet module is forwarded over a Multipoint-to-Point Tunnel (MPT) built by IP Navigator, or over a regular Permanent Virtual Circuit (PVC). Similarly, traffic received from the network is forwarded from the MPT or circuit to the appropriate Ethernet segment and address.

Improves network performance and protects investment

The Ethernet 10/100Base-T Module reduces bottlenecks to dial access equipment, improving network performance with high speed 100 Mbps connections. This enhanced performance enables new service opportunities with direct access to LAN-attached Web, mail, security and transaction processing servers, while protecting the investment in existing LAN server equipment.

Dial Server Aggregation and Internet/Intranet Services

A service provider can now easily offer generic Internet services as well as value-added point-to-point IP services.

Operational features

Protocols supported

- TCP
- ICMP
- INARP
- SNMP
- RIP
- BGP4
- Traffic and route filters
- IP QoS
- MOSPF
- IGMP
- UDP
- ARP
- Telnet, TFTP, FTP
- OSPF
- RIP 2
- Static Routing

- DVMRP
- PIM

Management

- RFC 1398 Ethernet MIB
- RFC 1213 TCP/IP-based Internets MIB

Throughput

- 540k pps/ module (128 byte packets)

Specifications

Physical dimensions

- Size: 1 in x 16 in x 11 in
  (2.5 cm x 40.6 cm x 27.9 cm)
- Weight: 2 lb (.91 kg)

Power requirements

- 90-91 watts

Agency approvals

- EN55022 Class A (CISPR)
- EN50082
- FCC Part 15 Class A

Temperature range

- 0-50°C (32-122°F)

NEBS

- GR-63-CORE
- GR-1089-CORE

Physical interfaces

- Four RJ45-8 connectors
  (two-pair, category 5 UTP), or
- Four Media Independent Interface
  (MII) connectors

Interface standards

- 802.3-compliant 100 Base TX
  - 10 Mbps operation
  - 100 Mbps operation
- Full- or half-duplex
- Auto-negotiation for 10 or 100 Mbps rate
  and full- or half-duplex
- Internal and external Loopback

LED indicators per module

- Three LEDs are provided to indicate
  module status.

Status	LED State
Normal Operation	Good LED Lit
Module Failure	Failed LED Lit
Module On-line - redundant module installed and off-line	Redundant LED lit
Module On-line - no redundant module installed	Redundant LED off
Module Off-line - redundant module installed and on-line	Redundant LED flashing

LED indicators per port

- Five LEDs are provided per port to indicate
  port status and traffic.

Status	LED State
TX activity	On/Off
RX activity	On/Off
Link Est.	On/Off
Full Duplex	On/Off
Collision	On/Off

Ordering information

Description	Product code
2-port Ethernet I/O Processor	59113
2-port Ethernet I/O Adapter	59114

Ascend Communications, Inc. develops, manufactures
and sells wide area networking solutions for telecom-
munications carriers, Internet service providers, and
corporate customers worldwide. For more information
about Ascend and its products, please visit the
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Ascend markets the B-STDX, CBX, IP, MAX, Multiband,
MultiDSL, Navis, Pipeline, SA, SecureConnect and STDX
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