product information

Ascend Multiband VSX BRI



You need a compact inverse multiplexer with large-scale possibilities. The Multiband VSX BRI is a cost-effective solution for growing your multimedia network.

Multimedia Access ▾ Videoconferencing ▾ Digital Dial Backup

The Multiband™ VSX BRI is a notebook-sized inverse multiplexer that extends your corporate videoconferencing network to remote sites using ISDN BRI circuits. The bandwidth on demand capabilities of the Multiband VSX BRI allow you to operate your video network at substantial savings by using only the bandwidth that is needed. An expansion module can be added to give you even greater bandwidth for more sophisticated applications.

The Multiband VSX BRI fits into any room system rack or on any desktop and provides inverse multiplexing, dial-up videoconferencing, call and device management, and global connectivity. These features are well-suited for applications such as group and desktop videoconferencing, distance learning, electronic banking, telemedicine file transfer, and dial backup. The Multiband VSX BRI is a powerful tool that helps you build flexible and cost-effective multimedia solutions.

ASCEND

Multimedia Solutions and Videoconferencing

Bandwidth on demand maximizes performance and decreases cost

Digital dial-up connections are transparently established and removed as required. The expansion module can be added to give you additional bandwidth up to 512 Kbits/s.

- Base unit functions as ISDN Terminal Adapter (TA) to set up sessions at speeds up to 128 Kbits/s
- Supports Nx56 and Nx64
- A 3-BRI expansion module allows for inverse multiplexing of 4 ISDN BRI lines and boosts data rate to 512 Kbits/s
- Ascend Inverse Multiplexing (AIM) offers feature-rich bandwidth management among Ascend Multiband units
- Conforms to Bandwidth ON Demand INteroperability Group (BONDING) standards for interoperability with other vendors' inverse multiplexers
- U-interface (internal NT1) or S/T interface

Communicates with multiple switched services for flexible network access

The Multiband VSX BRI is fully compatible and can communicate with a broad range of existing network access equipment. Applications can choose a switched service on a call-by-call basis.

- Switched 56 Kbits/s DSUs
- ISDN Terminal Adapters
- Inverse multiplexers conforming to the BONDING standard
- Integrates seamlessly with Ascend Multiband and MAX product families

Ensures compatibility with a broad range of videoconferencing manufacturers

Dial-access features allow the VSX BRI to interoperate with multiple manufacturers' videoconferencing equipment.

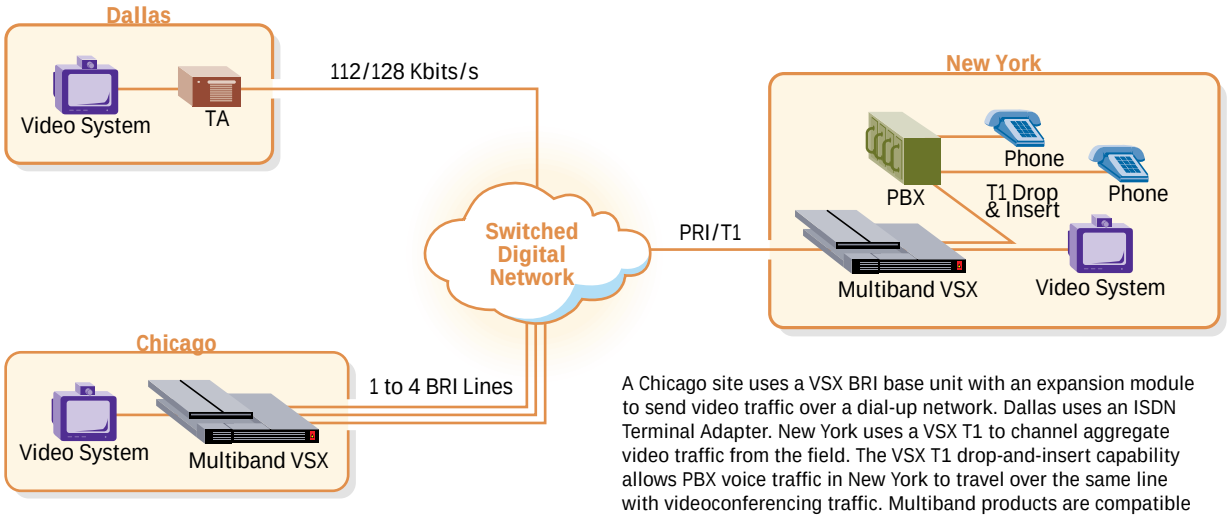
- Field-selectable dual V.35, RS-449/422 or X.21 data ports
- RS366, V.25 bis, X.21 and control-lead dialing
- Exact clocking and 56-64 Kbits/s rate adaption
- Speed dialing and stored call profiles
- Supports high-speed desktop videoconferencing

Operates with domestic and international services for global connectivity

Ascend's Multiband products are certified in 30 countries and provide global connectivity with switched services from multiple vendors.

- AT&T ACCUNET Services
- AT&T Switched Digital International
- MCI VPDS 56/64 Kbits/s
- Sprint VPN 56/64 Kbits/s
- Local Exchange Carrier 56/64 Kbits/s
- International PTT 64 Kbits/s

Network Solution



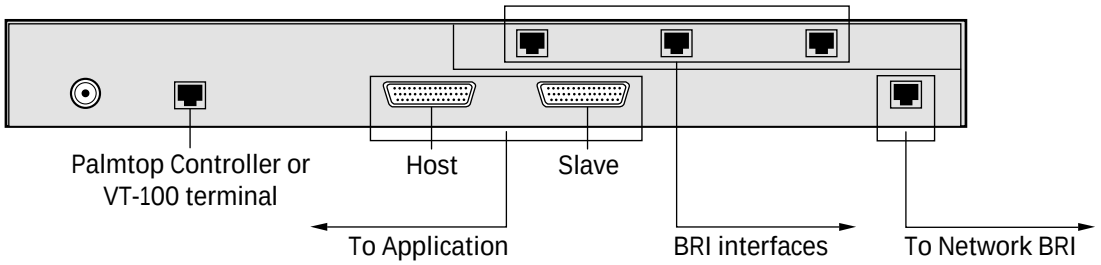
A Chicago site uses a VSX BRI base unit with an expansion module to send video traffic over a dial-up network. Dallas uses an ISDN Terminal Adapter. New York uses a VSX T1 to channel aggregate video traffic from the field. The VSX T1 drop-and-insert capability allows PBX voice traffic in New York to travel over the same line with videoconferencing traffic. Multiband products are compatible with any vendors' ISDN Terminal Adapter.

Extensive management features offer simplified setup and administration

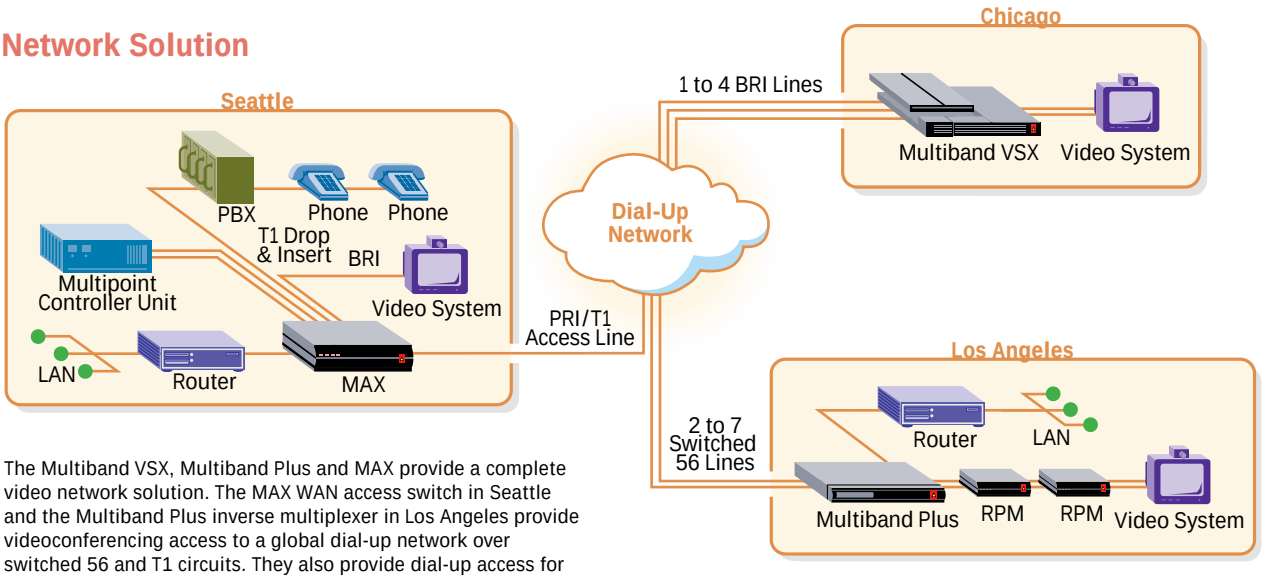
An inband remote management capability allows you to modify and control your system remotely or from the central site. Features support local or remote diagnostics and provide menu-driven management.

- Dial-up remote management from any Ascend Multiband product
- Local and remote loopbacks
- Channel bit error rate testing
- Configuration backup
- Password security
- Field software upgradability
- Controllable from a palmtop or VT-100 terminal

Multiband VSX BRI Back Panel



Network Solution



The Multiband VSX, Multiband Plus and MAX provide a complete video network solution. The MAX WAN access switch in Seattle and the Multiband Plus inverse multiplexer in Los Angeles provide videoconferencing access to a global dial-up network over switched 56 and T1 circuits. They also provide dial-up access for LAN routers. The VSX inverse multiplexer connects a customer's video system in Chicago to the video network over BRI lines. Remote Port Modules (RPMs) extend the Multiband's ports to videoconferencing rooms at distances of up to 3,400 feet.

Hardware Specifications

Dimensions	Base Unit:	12.63 x 12.25 x 1.75 in (1U) [32.1 x 31.1 x 4.5 cm]
	Module:	7.38 x 11 x 0.88 in [18.7 x 27.9 x 2.2 cm]
Weight	Base Unit:	4 lbs 4.1 oz
	Module:	14.2 oz
Power Requirements		90-130VAC, 0.2-0.4A/220-40VAC, 0.1-0.2A
Operating Requirements		Operating temperature: 32-104˚F [0-40˚C] Storage temperature: 40-176˚F [-71.4-80˚C] Humidity: 0-90% (non-condensing)
Base System		Multiband VSX BRI with ISDN basic rate interfaces, 2 host ports, D-channel signaling for ISDN, RS366/V.25 bis/X.21 dialing protocols, Ascend inverse multiplexing, and BONDING
Modules		ISDN BRI-3 bandwidth expansion module adds 3 BRI ports for a total unit capacity of 512 Kbits/s
Cabling		Palmtop to DB9 for terminal access
DTE Connectors		Two DB-44 connectors support V.35, RS449/422 standard and X.21
Control Terminal		Palmtop hand-held terminal VT-100 access

Ascend's Remote Networking Products

MAX™ Family

Designed specifically for remote access server applications. Supports ISDN BRI, ISDN PRI, T1/E1 and Ethernet on the base unit.* Allows simultaneous calls from ISDN BRI, frame relay and/or modem users over ISDN PRI, channelized T1/E1, or ISDN BRI lines.

Pipeline™ Family

Pipeline products are designed to connect users in small or home offices to backbone networks and/or the Internet. Pipeline models support Ethernet to ISDN, Switched 56 or Leased 56 services, and Ethernet to 56 Kbits/s or 64 Kbits/s frame relay services.*

Multiband™ Family

Multiband bandwidth-on-demand controllers are designed primarily for videoconferencing applications and let users dial-up bandwidth in increments of 56/64 Kbits/s up to 4 Mbits/s, using all types of digital access lines*—Switched 56, T1/E1, ISDN BRI, ISDN PRI and network carrier services.

* Depending on model and configuration

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Ascend Communications, Inc. (NASDAQ: ASND) develops, manufactures, markets, sells and supports a broad range of high-speed digital wide area network access products. These products use bandwidth on demand to enhance existing corporate networks for applications such as remote LAN access, telecommuting, SOHO and Internet access, and videoconferencing/multimedia access.

Ascend markets the MAX, Pipeline and Multiband families of products. Ascend products are available in more than 30 countries worldwide.

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