

Ascend Multiband Plus



Your sophisticated network applications require a powerful access solution. The Multiband Plus provides extensive bandwidth management capabilities and high-speed global connectivity.

Multimedia Access • Videoconferencing • Backup/Overflow

The Multiband™ Plus is a dynamic bandwidth controller designed for users needing high-speed access for multiple applications. It provides bandwidth on demand at speeds from 56 Kbps to three Mbps and handles as many as four concurrent applications including videoconferencing, LAN interconnectivity, electronic imaging, disaster recovery, private network backup and private network overflow.

Using Ascend's patented Dynamic Bandwidth Allocation™, the Multiband Plus varies bandwidth as needed, providing considerable cost savings on monthly network charges. It supports a dynamic mix of dial-up services and inverse multiplexing protocols to assure interoperability between a wide range of data communications equipment. Certified for use internationally, Multiband Plus gives companies a global solution for interconnectivity.



Networking Solutions for Videoconferencing, Backup and Multimedia

Supports multiple platforms for flexible network access to concurrent applications

Multiband Plus supports the complete Bandwidth ON Demand INTERoperability Group (BONDING) specification for interoperability with data communications equipment. Ascend also provides a wide range of choices for inverse multiplexing protocols. Applications can choose between these standards on a call-by-call basis.

- Ascend's proprietary inverse multiplexing protocol
- Bandwidth ON Demand INTERoperability Group (BONDING) inverse multiplexing standard
- Nx56/64-inverse multiplexing calls worldwide in increments of 56 or 64 Kbps
- Supports single or dual V.35, RS-449/RS-422, or X.21 host interfaces, which are selected by choosing the appropriate cable
- Exact clocking and 56-64 Kbps rate adaption
- Speed dialing and stored call profiles
- Supports high-speed desktop videoconferencing

Operates with domestic and international services for global connectivity

Multiband Plus offers access from Leased 56 (DDS), Switched 56, T1/E1, Fractional T1/E1, ISDN Basic Rate and ISDN Primary Rate (plus Multirate Services) to all switched digital services. Each T1/E1 network port can be equipped with an integrated ESF CSU or ordered with a DSX interface.

- AT&T ACCUNET, MCI CPDS, Sprint VPN
- Multiple PPT services in Europe and Pacific Rim
- Local Exchange Carrier services

Bandwidth on demand maximizes performance and decreases costs

A variety of bandwidth management capabilities within Multiband Plus can be applied on a call-by-call basis to suit specific needs, including backup and overflow applications.

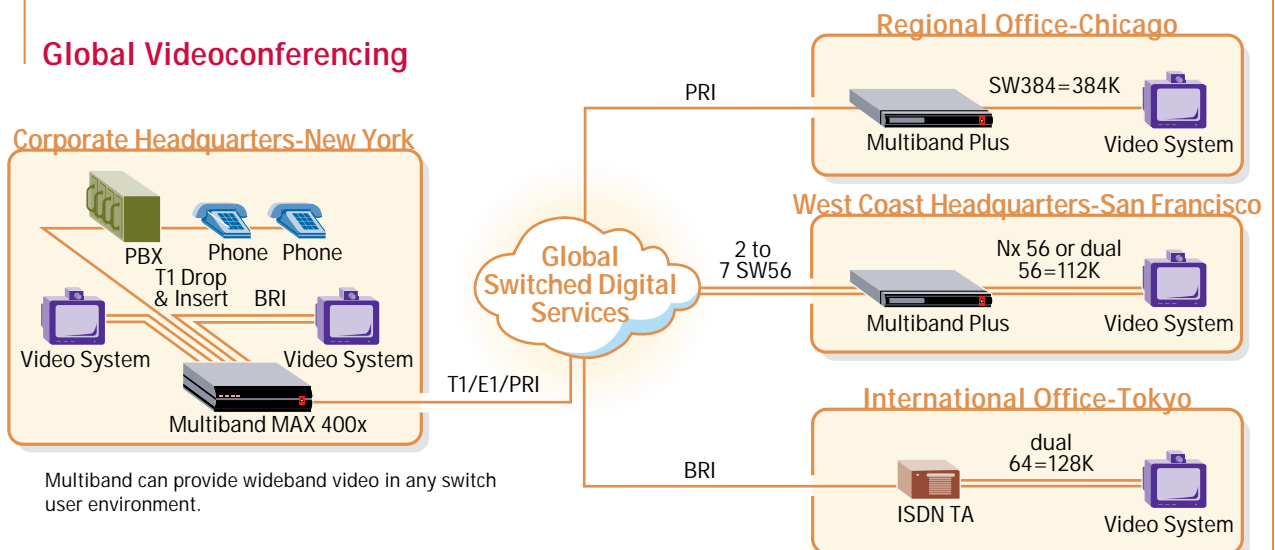
- Bandwidth controlled manually, automatically or by time-of-day profile
- Ascend's Dynamic Bandwidth Allocation monitors traffic and automatically controls speed of the connection for back-up and overflow applications
- No special signaling required from the bridge, router or T1/E1 MUX

Extensive management features offer simplified setup and administration

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

- Dial-up remote management from any Ascend Multiband product
- Local and remote loopback
- Password security
- Channel-by-channel bit error rate testing
- Configuration backup
- Field activation of software features
- Controllable from desktop or VT-100 terminal
- Supports a line-oriented control interface that allows programmatic control from computer management terminals

Global Videoconferencing



**** Multiband MAX 400x designates Multiband MAX 4000, Multiband MAX 4002 or Multiband Max 4004**

Hardware Specifications

Dimensions	17 x 12 x 1.75 in (1U) [43.2 x 30.5 x 4.5 cm]
Weight	10 lbs [4.5 kg]
Power	90-130VAC, 0.2-0.4A
Requirements	220-240VAC, 0.1-0.2A, 47-63 Hz
Operating Requirements	Operating temperature: 32-104°F [0-40°C] Storage temperature: -40-176°F [-71.4-80°C] Humidity: 0-90% (non-condensing)

Compliance

- National ISDN-1, EuroISDN, NET3, 1TR6, BTNR191, INS-64, EN60950, EN41003, CISPR22
- Relevant parts of AT&T publications 235-900-301, 235-900-322, 801-802-100, 41458, 54016, 54019, 61330, 62310, 62411, TR41449, TR41459
- Relevant parts of Northern Telecom AB01, NIS S208-4.0, NT1-2W-SW56
- ANSI T1.403
- FCC parts 15 & 68
- UL, CSA listed
- Homologated in 28 countries

Models

Base Systems	Multiband Plus SW56/4W with 7 full-duplex four-wire 56 Kbps network interfaces Multiband Plus SW56/2W with 7 full-duplex two-wire 56 Kbps network interfaces Multiband Plus BRI with up to 8 ISDN Basic Rate Interfaces Multiband Plus T1/E1/PRI with up to 2 T1/E1/Primary Rate Interfaces, and optional built-in CSUs on one or both network interfaces
DTE Connection	4 DB-44 connectors, standard
Optional	19" rack mount

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Ascend Communications, Inc. is a leading, worldwide provider of remote networking solutions for corporate central sites, Internet Service Providers' points of presence, remote offices, mobile workers, and telecommuters. Ascend develops, manufactures, markets, sells and supports products which utilize bandwidth on demand to extend existing corporate networks for applications such as remote LAN access, Internet access, telecommuting, SOHO connectivity and video-conferencing/multimedia access. Detailed information on Ascend products, news announcements, seminars, service and support is available on Ascend's home page at the World Wide Web site: <http://www.ascend.com>.

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

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