PRODUCT INFORMATION

Ascend

SA 50 Broadband Access Unit



The Ascend SA 50 Broadband Service Unit is a compact, low-cost multiservice ATM access unit. It provides integration of data, voice, and video at the customer premises onto public or private Asynchronous Transfer Mode (ATM) networks at speeds up to T1/E1. The SA 50 Broadband Service Unit provides a point of access to a public or private ATM network for remote sites. By combining interfaces for Ethernet, Frame Relay, circuit emulation, compressed digital or analog voice and native ATM services into one package, network service providers can use the SA 50 to provide bundled multiservice access to remote sites in a cost-effective manner. The SA 50 can easily be upgraded to the more powerful SA 100 unit by simply changing the WAN access interface module (XPOD) on the unit and upgrading the unit's software. This allows migration to higher speed WAN uplinks, ranging from NxT1/E1 IMA to DS3/E3 and OC-3/STM-1.

Superior components provide data, voice and video

With a single Interface Control Module (ICM), the SA 50 accommodates up to 10 I/O interfaces, supporting circuit-switched voice, video, Frame Relay and ATM connections. The ICM has a built-in Ethernet port (10/100 Mbps) that can be used for network management access or user traffic. A powerful Protocol Accelerator™ provides wire-speed translation to and from ATM cells, processing up to 200,000 packets per second.

Ethernet interfaces support transparent LAN services. Circuit-switched connections provide interfaces to voice and video equipment. Analog interface and digital voice compression modules support Ascend's MultiVoice over ATM and Frame Relay interfaces support high-throughput router and server connections. A T1 or E1 ATM module with integral CSU/DSU provides connections to the ATM core network. Support for ATM services includes:

- High-speed native LAN services
- Private line or video circuit emulated services
- Frame-based Internet services
- Frame compressed voice services

Exceptional software and hardware features optimize network operation

Component-based software increases network availability, reduces memory requirements and accelerates new service development. Software modules are added or upgraded on a stable software foundation with minimal network disruption. Interchangeable hardware modules furnish an upgrade path to other Broadband Access products.

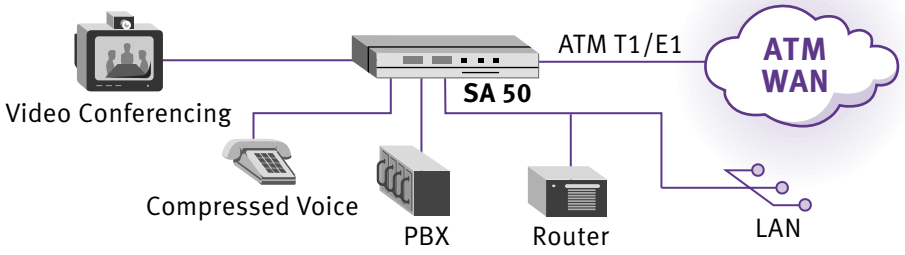
- Component-based software for high system availability and rapid service development
- Interchangeable hardware modules for easy upgrade path

Sophisticated tools deliver powerful network management

WebXtend™ network management leverages Web technology to deliver secure, user-friendly access to advanced management tools. WebXtend architecture is based on a standard Web client/server model. The server is embedded in every Ascend Broadband Access system; the client can be any Java-enabled Web browser.

- Powerful Web-based management tool
- Sophisticated WebXtend, SNMP and Navis™ management access

Broadband Access



The SA 50 lets service providers offer advanced voice, video and data services that satisy diverse user needs.

Specifications

Physical dimensions	Size: 17.5 in x 12 in x 2.35 in [44.5 cm x 30.5 cm x 6.0 cm] Weight: 13.5 lb [6.1 kg] fully loaded
Power requirements	AC PSU 90 to 132/180-264 VAC 47-63 Hz, Autoranging 100W PSU 1A Draw Max
Environmental	Operating temperature: 32° – 122°F [0 – 50°C] Storage temperature: -40° – 140°F [-40°C – 60°C] Humidity: 5% to 95% non-condensing Altitude range: 500 ft to 10,000 ft [152 to 3,048 meters]
Agency certification	EMI: FCC Part 15A, GR-1089-CORE, EN55022, AUSTEL, JATE Telecom: FCC Part 68 GR-63-CORE, IC, AUSTEL, JATE, EN55022 Class A Safety: UL 1950, EN60950, AUSTEL, IEC950
OA&M	Performance monitoring per ITU.610 and Bellcore GR-1248-CORE
System clocking	Clock sources: Internal reference oscillator, recovered from user-specified interface
MIB support	SNMP MIB II, AToM MIB, ILMI MIB, CES v2 MIB, Interface MIBs, Bridging MIB and Broadband Access Enterprise MIB
Expansion Protocol Option Devices (XPODs)	T1 G.804 ATM with integral CSU/DSU (1 port) T1 G.804 ATM Enhanced (1 port) E1 G.804 ATM Enhanced (1 port)
Interface Protocol Option Devices (IPODs)	T1/E1 Structured/Unstructured circuit emulation (4 ports) Serial Circuit Emulation V.35, V.21 (2 ports) 10/100Base-T Ethernet (1 or 4 ports) Universal Frame Forwarding V.35, X.21, RS-232, RS-449 (2 ports); FRF.5, FRF.8 T1/E1 Voice compression with fax/modem bypass (1 port) Analog voice compression, with fax/modem bypass (4 ports) ATM25 (25.6 Mbps) (4 ports)
Service interfaces	Circuit emulation with A+B bit interpretation, dynamic bandwidth over AAL1 Serial Frame transport, FRF.5 & FRF.8 over AAL5 Analog/Digital Voice Compression with fax/modem bypass LAN switching over AAL5 Native ATM cell switching
System management	WebXtend HTTP/Java via Web browser; Navis Local craft; VT-100 ANSI; Ethernet port, Inband ATM, Telnet/FTP, NavisCore, SNMP

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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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