

Ascend

SA 100 Broadband Access Unit



The SA 100 Broadband Access unit lets service providers cost-effectively extend ATM and application-oriented broadband services beyond large corporate offices to small remote offices. The modular architecture economically supports a high mix of applications, giving service providers the capability to meet all user requirements. With a single unit, they can flexibly deliver advanced data, voice and video services, meeting all their customers' broadband requirements.

High-performance unit offers a wide range of services

With a single Interface Control Module (ICM), the SA 100 accommodates up to 20 I/O interfaces, supporting 10/100-Mbps LANs, circuit-switched and high-speed ATM connections. A powerful Protocol Accelerator™ provides wire-speed translation to and from ATM cells and can process up to 200,000 packets per second. The SA 100 provisions transparent LAN services and supports up to eight 10/100 Mbps Ethernet ports. Circuit-switched connections provide interfaces to voice and video equipment. ATM interfaces support high-throughput router and server connections as well as connections to the ATM core network.

- ▶ High-performance protocol accelerator
- ▶ Simultaneous 1 Gb/s cell and 1 Gb/s packet processing
- ▶ ATM Forum TM 4.0 support
- ▶ Support for CBR, rt-VBR, nrt-VBR, UBR and ABR service types

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.

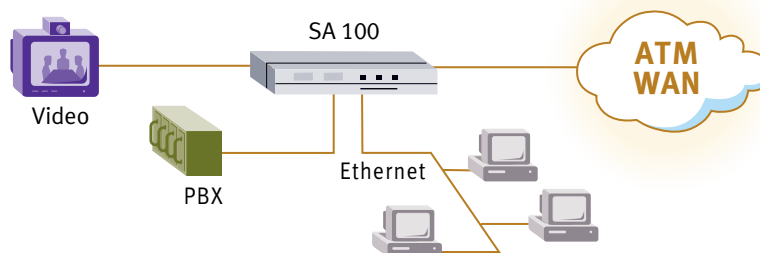
- ▶ Component-based software for high system availability and increased service development
- ▶ Interchangeable hardware module ensures continuous uptime

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 NavisCore™ management access

Broadband Access



The SA 100 lets service providers offer the advanced voice, video and data services that satisfy diverse user needs.

Specifications

| | |
|---|---|
| Physical dimensions | Size: 17.5 in x 12 in x 1.75 in (44.5 cm x 30.5 cm x 4.45 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 DC PSU: -36 to 76 VDC 100W PSU 2A 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 (152 meters) to 10,000 ft (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, Interface MIBs, Bridging MIB and Broadband Access Enterprise MIB |
| Expansion Protocol Option Devices (XPODs) | OC-3/STM-1 single/multimode, SR, IR, LR ATM (1 port) T3/E3 PLCP and G.804 ATM (1 port) T3/E3 PLCP and G.804 ATM (1 port) T1/E1 G.804 ATM (1 port) T1/E1 Inverse Mux ATM (4 ports) T1 G.804 ATM with integral CSU/DSU (1 port) T1/E1 Structured/Unstructured circuit emulation (2 ports) |
| Interface Protocol Option Devices (IPODs) | OC-3/STM-1 single/multimode, SR, IR, LR ATM (1 or 2 ports) T3/E3 PLCP and G.804 ATM (1 or 2 ports) T1/E1 G.804 ATM (4 ports) T1/E1 Structured/Unstructured circuit emulation (4 ports) 10/100Base-T Ethernet (4 ports) Universal Frame Forwarding V.11, V.35, X.21, RS-232, RS-449 (2 ports) Universal serial circuit emulation V.11, V.35, V.21, RG-232, RS-449, RS-5302.2 (2 ports) |
| Service interfaces | Circuit emulation with A+B bit interpretation, dynamic bandwidth over AAL1 Frame transport over AAL5 LAN switching over AAL5 Native ATM cell switching |
| System management | WebXtend HTTP/Java via Web browser Local craft; VT-100 ANSI terminal and/or modem 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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