PRODUCT INFORMATION

Ascend

SA 600 Broadband Service Concentrator



The SA 600 Broadband Service concentrator furnishes a powerful mid-level broadband service access solution and low-speed ATM access concentration. The SA 600 is a revenue generation vehicle for service providers to offer multi-applications and broadband services to multitenant and large enterprise customers. The SA 600 modular architecture economically supports a high mix of applications and services enabling service providers to deliver advanced data (high performance LAN internetworking and high speed internet access), voice (compressed voice and PBX support) and video services (videoconferencing and interactive distance learning applications). The SA 600 delivers the reliability and architecture to geographically extend the ATM network infrastructure and enable broad ATM services deployment. By economically concentrating regional low-speed ATM traffic for transport to a core ATM backbone network, the SA 600 lets service providers reduce their network trunk requirements.

Advanced features ensure superior applications and services

The SA 600 Broadband Service Concentrator supports a high mix of native applications and broadband services. The SA 600 can accommodate up to 57 I/O interfaces, supporting 10/100 Mbps Ethernet ports, Frame Relay, circuit-switched services for voice and video applications, and high-speed ATM connections for broadcast-quality MPEG video over ATM, high-throughput router, server connections as well as for advanced broadband services.

- Integrated broadband access solution for data, voice and video applications and services
- Low-speed ATM access concentration, supporting T1/E1 ATM UNIs, NxT1/E1 ATM Forum IMA or T3/E3 ATM UNIs
- Supports high-speed ATM network access to the WAN core network—OC-3/STM-1
- ATM Forum TM 4.0 support
- Support for CBR, rt-VBR, nrt-VBR, UBR and ABR service types

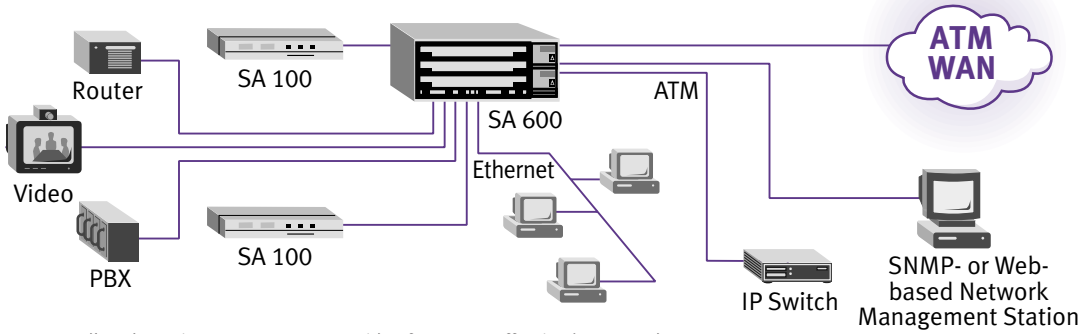
Modular architecture and carrier-class design assures high availability

The SA 600 component-based software provides enhanced network availability, reduces overall memory requirements and accelerates new service development. Software modules can be added or modified independently, and software upgrades can be achieved—all with minimal network disruptions. Common hardware modules provide the upgrade path from an SA product to a higher capacity SA product. The common modules also ease sparing requirements for service providers deploying multiple devices since spares are interchangeable and can run in all the products.

The SA 600 offers optional power redundancy and control logic redundancy for automatic switchover, providing today's required levels of fault tolerance and redundancy. Sophisticated performance monitoring and diagnostic capabilities help network operators anticipate and correct problems before they affect users.

- Component-based software architecture
- Interchangeable hardware modules

Integrated Broadband Access



SA 600 Broadband Service Concentrator provides for a cost-effective low-speed ATM access concentration and a revenue generation vehicle for service providers to offer multi-applications and broadband services to multitenant and large enterprise customers.

Web-based technology delivers cost-effective and simplified network management solution

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

- Cost-effective and powerful Web-based management solution
- Sophisticated WebXtend, SNMP and Navis™ management support

Specifications

Dimensions	17.5 in x 12 in x 7 in [44.5 cm x 30.5 cm x 17.8 cm]
Weight	34.0 lb [15.4 kg] fully loaded
Mounting Options	Stand-alone or rack-mount
Power requirements	AC PSU 90 to 132/180-264 VAC 47-63 Hz Autoranging 200W PSU 2A Draw Max DC PSU: -36 to 76 VDC 100W PSU 4A Draw Max
Environmental	Operating temperature: 32˚F–122˚F [0–50˚C] Storage temperature: -40˚F–140˚F [-40˚–+60˚C] Humidity: 5% to 95% (non-condensing) Altitude: 500 ft–10,000 ft [152 meters–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 Safety: UL 1950, EN60950, AUSTEL, IEC950
OA&M	Performance monitoring per ITU.610 and Bellcore GR-1248-CORE
Clock sources	Internal reference oscillator, recovered from user-specified interface, recovered from system timing bus
MIB support	SNMP MIB II AToM, MIB, ILMI MIB, CES MIB, IMA MIB, Interface MIBs, Bridging MIB and Broadband Access Enterprise MIB
Expansion Protocol Option Devices (XPODs)	OC-3/STM-1 single/multimode, SR, IR, LR (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) NxT1/E1 ATM Forum IMA with integral CSU (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 (1 or 2 ports) ATM-25 (4 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) Serial circuit emulation V.35, X.21 (2 ports) NxT1/E1 ATM Forum IMA (8 ports) NxT1/E1 ATM Forum IMA with integral CSU (8 ports) T1/E1 Voice compression (1 port) 10/100Base-T Ethernet (1 or 4 ports) Universal Frame Forwarding; FRF.5; FRF.8; HSSI (2 ports)
Service interfaces	Circuit emulation with A+B bit interpretation, dynamic bandwidth over AAL1 Voice compression Frame transport; Frame Relay 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 SNMP Navis

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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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