



ATLAS 550

Enterprise Integrated Access Device

Product Features

- Supports T1, ISDN, and Frame Relay networks
- Six-slot modular chassis includes one T1/PRI Network Interface Module (NIM), a second NIM option slot, and four user option slots
- Supports FXS, FXO, E&M and DSX-1 for PBX or key systems
- Supports up to 32 analog ports
- Provides integral DSU/CSUs, multiplexing, I/O DACSing, Frame Relay, PPP, IP routing, ISDN switching, and intelligent voice/data call routing
- Supports NxT1 inverse multiplexing (up to 8 T1s to HSSI, up to 4 T1s to V.35)
- Optional Voice Compression module for Voice over Frame Relay (VoFR)
- Integral 10/100BaseT Ethernet
- Hot-swappable modules
- Management includes: SNMP, Telnet, and VT100
- AC or DC Models

The ATLAS 550 is an Integrated Access Device designed to improve and lower the costs of voice/data, video, and Internet communications for enterprise businesses and network service providers. With the ATLAS 550, many WAN functions have now been merged and combined into a small, economical, modular platform that will replace a rack of traditional single function access devices. With the ATLAS 550, traditional multiplexed and packet networks are easier to deploy and manage while providing more bandwidth efficiency out of existing or new communications links. The ATLAS 550 provides a new level of communications flexibility by offering many of the features previously found in larger central office, PBX, or router equipment.

The ATLAS 550 chassis includes a high-speed multi-protocol backplane and six modular expansion slots: two network interface slots and four user interfaces slots. A wide range of hot-swappable, industry-standard modules are also available to effectively converge your telecommunications and your existing network systems, such as routers, PBX, key systems, videoconferencing equipment, remote access servers, LANS, faxes, and telephones. The ATLAS 550 will typically reside at a customer site and perform the functions found in multi-port multiplexers, channel banks,

I/O cross-connect switches, Frame Relay access devices/concentrators/switches, IP routers, inverse multiplexers, and ISDN switches. It also includes an integral switch-board and dial plan for dynamically and intelligently switching voice and data calls based on the telephone number dialed.

ATLAS 550 supports multiple network technologies including T1/FT1, DSX-1, ISDN, FXS, FXO, E&M, V.35, and 10/100 Ethernet and is designed to be used for more cost-effective T1, ISDN or Frame Relay networks. With the modularity of ATLAS 550, users can now support traditional switched or multiplexed voice/data traffic, ISDN, or packetized Frame Relay. Users can also run a hybrid mix of network architectures that will make it easier to evolve network systems and applications. For example, using intelligent call routing and an optional voice compression module, users can simultaneously support toll grade voice calls and compressed voice over Frame Relay, all dynamically switched between PBXs, key systems, and the public network.

For configuration and troubleshooting, the ATLAS 550 includes LEDs for complete operational status indications, front and rear VT100 craft interfaces for terminal or dial-in access, alarm contacts, and a 10/100 Ethernet LAN connection for SNMP and Telnet.

ADTRAN, Inc.

Attn: Enterprise Networks
901 Explorer Boulevard
Huntsville, AL 35806

P.O. Box 140000
Huntsville, AL 35814-4000

256 963-8000 voice
256 963-8699 fax
256 963-8200 fax back

General Information

800 9ADTRAN
info@adtran.com
www.adtran.com

Pre-Sales

Technical Support

800 615-1176 toll-free
application.engineer@adtran.com
www.adtran.com/support

Where to Buy

877 280-8416 toll-free
channel.sales@adtran.com
www.adtran.com/where2buy

Post-Sales

Technical Support

888 423-8726
support@adtran.com
www.adtran.com/support

ACES Installation & Maintenance Service

888 874-ACES
aces@adtran.com
www.adtran.com/aces

International Inquiries

256 963 8000 voice
256 963-6300 fax
international@adtran.com
www.adtran.com/international

For the regional office nearest you, visit:

www.adtran.com/where2buy



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Printed in the U.S.A.
61200305L1-8E July 2002

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Product Specifications

T1/PRI Network Interface module

- One built-in T1/DSX-1/PRI port
- Full or fractional T1 support
- Connects with network or user equipment under software control
- Built-in CSU
- Signaling ISDN D Channel, Robbed-Bit: E&M, FXS, FXO, ground and loop start, DID conversion between T1 and ISDN
- **Line Rate:** 1.544 Mbps +/-75 bps
- **Physical Interface:** RJ-48C, modular 8-pin
- **Framing:** D4(SF)/ESF
- **Line Code:** AMI/B8ZS
- **Input Signal:** 0 to -36 dB
- **Line Length:** DS-1: 6,000 ft (24 AWG), DSX-1: 655 ft

LAN Features

- Built-in 10/100BaseT Ethernet port

IP Router Features

- RIP V1, RIP V2, ICMP, ARP, IARP, UDP Relay, OSPF

Frame Relay

- RFC 1490 encapsulation

Link Management

- ANSI T1.617-D (Annex D)
- ITU-T Q.933-A (Annex A)
- LMI (Group of four)
- Automatic link management protocol discovery

Congestion Control

- FECN/BECN, Discard Eligible (DE)

Quality of Service

- User configurable DLCI priorities
- G.723.1 voice compression

Switch Compatibility

- Lucent 4ESS/5ESS, Nortel DMS-100/250, GTD-5, NI-1 and NI-2 management features
- SNMP, MIB II (RFC1213), DS-1 MIB (RFC1406) and Enterprise
- Loopbacks, QRSS test patterns
- Alarm contacts

Frame Relay Performance Stats

- TX/RX packets, state changes, signaling errors, TX/RX full status, TX/RX link integrity status, FECN/BECN count, DE count
- Min/Max/Avg delay, dropped packets

Frame Relay Capacity

- 300 PVCs per system
- 5500 packets per second

Physical

- **Dimensions:** 17.08" W, 11.67" D, 3.47" H

Environment

- **Operating Temperature:** 0° to +45°C
- **Storage:** -20° to +70°C (-4° to 158°F)
- **Relative Humidity:** Up to 95%, non-condensing

Power

- **AC Power:** 90/240 vAC, 50/60Hz
- **DC Power:** +24 vDC or -48 vDC

Agency Approvals

- UL 1950, CUL
- FCC Part 15 (Class A) and FCC Part 68
- CE Mark

Product Includes

- ATLAS System CD (Includes ADTRAN Utilities TFTP Server, VT100 Client, Telnet; System Manual; System MIBS; Application Notes; Module Quick Start Guides; ADOBE Acrobat Reader), one 15 ft RJ-48C straight-through cable, one RJ-48 to DB-9 adapter, one RJ-48 to DB-25 adapter, one 6 ft straight cable

Ordering Information

Equipment	Part #
ATLAS 550 AC, w/ T1/PRI NIM	1200305L1
ATLAS 550 DC, w/ T1/PRI NIM	1200550L1



ATLAS 550 AC Rear Panel



ATLAS 550 DC Rear Panel