



# ATLAS 550

## ENTERPRISE INTEGRATED ACCESS DEVICE

### PRODUCT FEATURES

- Supports TDM or packet networks
- Six slot modular chassis includes one T1/PRI Network Interface Module, a second NIM option slot and four user option slots
- Supports FXS, FXO, and DSX-1 for PBX or key systems
- Provides integral DSU/CSUs, multiplexing, I/O DACSIng, Frame Relay, IP routing, ISDN switching, and intelligent voice and data call routing
- Hot swappable modules
- Management includes: SNMP, Telnet, and VT100
- Integral Frame Relay software for access, concentration, and switching
- Optional Voice Compression module for Voice over Frame Relay (VoFR)
- Integral 10/100 BaseT Ethernet for routing and management
- Supports up to 32 analog ports

The ATLAS 550 is an Integrated Access Device designed to improve and lower the costs of Voice/Data, video, and Internet communications for both 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, video conferencing 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, and ISDN switches. It also includes an integral voice switchboard 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, 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 up to 10 FT1s and run 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.

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# Product Specifications

## T1/PRI NETWORK INTERFACE MODULE

- One Built-in T1/DSX-1/PRI ports
- 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: 665 ft

## LAN FEATURES

- Built-in 10/100BaseT Ethernet port
- Route Management**
- RIP V1, RIP V2, ICMP, DHCP, ARP, IARP, UDP Relay

## 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

## COMPATIBILITY

- Lucent 4ESS/5ESS, Nortel DMS-100/250, GTD-5, NI-1 and NI-2

## MANAGEMENT FEATURES

### Frame/Relay Performance Statistics

- 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
- SNMP, MIB II (RFC1213), DS-1 MIB (RFC1406) and Enterprise NIB
- Loopbacks, QR-55, 511 test patterns
- Alarm contacts

## PHYSICAL

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

## ENVIRONMENT

- Operating Temperature: 0° to +55°C
- Relative Humidity: Up to 95%, non-condensing

## POWER

- AC Power: 115/230VAC, 50/60Hz

## AGENCY APPROVALS

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

## PRODUCT INCLUDES

- ADTRAN utilities software (includes TFTP Server, VT100 Client, Telnet), one RJ48C straight through cables, one RJ48C crossover cable, one RJ48-DB15 adapter, and user manual

# Ordering Information

## EQUIPMENT

## PART #

ATLAS 550 AC, w/ T1/PRI NIM,  
Frame Relay Software .....1200305L1

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