



ATLAS 550

Enterprise Integrated Access Device

Product Features

- Supports TDM or packet networks
- Six-slot modular chassis includes one T1/PRI or E1/PRA 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
- Provides integral DSU/CSUs, multiplexing, 1/0 DACSing, Frame Relay, PPP, IP routing, ISDN switching, and intelligent voice/data call routing
- Hot-swappable modules
- Management includes: SNMP, Telnet, and VT100
- Integral Frame Relay software for access, concentration, and switching
- Integral 10/100Base-T Ethernet for Telnet access and IP routing using PPP or Frame Relay Encapsulation
- Supports up to 32 analog ports
- AC and DC powered versions
- Industry-leading five-year North American warranty

The ADTRAN® ATLAS™ 550 is an Integrated Access Device (IAD) 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 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 typically

resides at the customer site and performs the functions found in multi-port multiplexers, channel banks, 1/0 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.

The ATLAS 550 supports multiple network technologies including T1/FT1, DSX-1, E1, ISDN, FXS, FXO, V.35 and 10/100Base-T 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 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 10/100Base-T Ethernet LAN connection for SNMP and Telnet.



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ADTRAN is an ISO 9001, ISO 14001, and a TL 9000 certified supplier.

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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

WAN Features

- Frame Relay with RFC 1490 encapsulation
- PPP

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

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 MIBs
- 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

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Frame Relay Capacity

- 300 PVCs per system
- 5,500 packets per second

Physical

- Dimensions: 17.08" W, 11.67" D, 3.47" H
- Weight: 18.3 lbs.

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/-48 VDC

Agency Approvals

- UL EN60950, CUL ■ CE Mark (AC only)
- FCC Part 15 (Class A) and FCC Part 68
- RoHS compliant (AC only)

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-25 adapter, one 6 ft straight cable

Ordering Information

Equipment	Part #
ATLAS 550 AC, with T1/PRI NIM, RoHS	1200305E2
ATLAS 550 AC, with E1/PRA NIM, RoHS	1200306E1
ATLAS 550 DC	1200550L2
ATLAS 550 T1-to-PRI Converter	4200305L1
ATLAS 550 Video Switch	4200305L2
ATLAS 550 PRI Channel Bank	4200305L7
ATLAS 550 Dual V.35 System	4200305L8
ATLAS 550 Dual V.35, 16 FXS System	4200305L9
ATLAS 550 Dual V.35, 24 FXS System	4200305L10
ATLAS 550 MODULES	
T1/PRI Module ROHS	1200307E2
E1/PRA Module ROHS	1200308E1
Octal FXS Module ROHS	1200309E1
V.35 Module ROHS	1200311E1
Dual T1/PRI Module ROHS	1200314E2
Quad BRI ISDN (U) Module ROHS	1200315E1
Quad BRI/ST Module ROHS	1200764E1
Octal FXO Module	1200310L1
Octal E&M Module	1200313L1
Dual RS-449/V.36 Module	4200754L1
Dual EIA-530 Module	4200754L2
Dual X.21/V11 Module	4200754L3
Dual EIA-232 Module	4200754L4