



# ATLAS 550

## Enterprise Integrated Access Device

### Product Features

- Supports TDM or packet networks
- Six-slot modular chassis includes one E1/PRA or T1/PRI Network Interface Module (NIM), a second NIM option slot, and four user option slots
- Provides multiplexing, 1/0 DACS/cross-connect, Frame Relay, PPP, IP routing, ISDN switching, and intelligent voice/data call routing
- All modules hot-swappable
- 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 support, service, and 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 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 new or existing communications links. The ATLAS 550 provides a new level of communication 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 telecommunications and 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 video applications by providing multiple E1, T1, PRI, PRI ISDN, BRI, V.35, RS-449, and EIA-530 interfaces for CODECs and gateways.

The ATLAS 550 supports multiple network technologies including E1, T1/FT1, ISDN, FXS, FXO, V.35 and 10/100Base-T Ethernet and is designed to be used for more cost-effective E1, T1, ISDN or Frame Relay networks. With the modularity of ATLAS 550, users can now support up to two E1s 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.



Smart Solutions for a  
Connected World.



## ADTRAN, Inc.

International Department  
901 Explorer Boulevard  
Huntsville, Alabama 35806  
USA

[www.adtran.com/global](http://www.adtran.com/global)

### U.S. Headquarters

+1 256 963 8000

+1 256 963 6300 fax

[international@adtran.com](mailto:international@adtran.com)

### International Customer Service

+1 256 963 8716 voice

### Asia—Beijing, China

+86 10 8527 5011

+86 10 8527 5010 fax

[sales.china@adtran.com](mailto:sales.china@adtran.com)

### Hong Kong

+852 3187 7111

+852 2116 4084 fax

[sales.asia@adtran.com](mailto:sales.asia@adtran.com)

### Asia—Bangkok, Thailand

+66 2 610 3724

+66 2 610 3601 fax

[sales.asia@adtran.com](mailto:sales.asia@adtran.com)

### Asia—Singapore

+65 6232 2305

+65 6232 2888 fax

[sales.asia@adtran.com](mailto:sales.asia@adtran.com)

### Australia/New Zealand—

#### Melbourne, Australia

+61 3 9658 0500

+61 3 9658 0599 fax

[sales.australia@adtran.com](mailto:sales.australia@adtran.com)

### Australia/New Zealand—

#### Sydney, Australia

+61 2 8456 0101

+61 2 8456 0105

[sales.australia@adtran.com](mailto:sales.australia@adtran.com)

### Canada—Montreal, Quebec

+1 877 923 8726

+1 514 940 2888

+1 514 989 3198 fax

[sales.canada@adtran.com](mailto:sales.canada@adtran.com)

### Canada Headquarters—Toronto,

#### Ontario

+1 877 923 8726

+1 514 989 3198 fax

[sales.canada@adtran.com](mailto:sales.canada@adtran.com)

### EMEA Regional Headquarters—

#### United Kingdom

+44 1256 884055

+44 1256 884056 fax

[sales.emea@adtran.com](mailto:sales.emea@adtran.com)

[sales.europe@adtran.com](mailto:sales.europe@adtran.com)

### Mexico/Central America/

#### Caribbean—USA

+1 256 963 4833

+1 256 963 6300 fax

[sales.latin@adtran.com](mailto:sales.latin@adtran.com)

[sales.caribbean@adtran.com](mailto:sales.caribbean@adtran.com)

[sales.mexico@adtran.com](mailto:sales.mexico@adtran.com)

[sales.ai@adtran.com](mailto:sales.ai@adtran.com)

### South America—USA

+1 256 963 3113

+1 256 963 6300 fax

[sales.latin@adtran.com](mailto:sales.latin@adtran.com)

[sales.brazil@adtran.com](mailto:sales.brazil@adtran.com)

[sales.ai@adtran.com](mailto:sales.ai@adtran.com)



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

I-61200305L1-8C April 2010  
Copyright © 2010 ADTRAN, Inc.  
All rights reserved.

# ATLAS 550

## Enterprise Integrated Access Device

## Product Specifications

### Network Interface

- Available with one built-in E1 or T1 port
- Full or fractional E1 or 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
- E1/PRA Line Rate: 2.048 Mbps  
T1/PRI Line Rate: 1.544 Mbps
- E1/PRA Physical Interface: DB-15, BNC with adapter  
T1/PRI Physical Interface: RJ-48C, modular 8-pin
- E1/PRA Framing: NFAS, FAS, TS16 MF and CRC-4  
T1/PRI Framing: D4(SF)/ESF
- E1/PRA Line Code: HDB3  
T1/PRI Line Code: AMI/B8ZS
- E1/PRA Input Signal: 0 to -30 dB  
T1/PRI Input Signal: 0 to -36 dB

### 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 Control

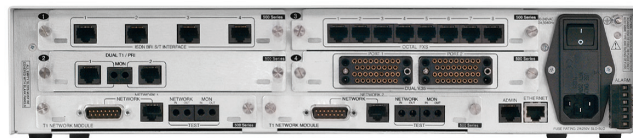
- User configurable DLCI priorities

### ISDN Switch Compatibility

- EURO ISDN, 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
- Trap/Alarm messages using SNMP
- Configuration, Alarms, Statistics, and Tests via Telnet
- Supports local and remote 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 ■ 5,500 packets per second

### Physical

- Dimensions (cm): 43.4 W, 29.7 D, 8.9 H
- Weight: 4.6 kg

### Environment

- Operating Temperature: 0° to +45°C
- Storage Temperature: -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
- 10 Watts (Base Unit) 60 Watts (Max)

### Agency Approvals

- CE Mark (AC only) ■ UL EN60950, CUL
- 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-9 adapter, one RJ-48 to DB-25 adapter, and 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
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

ADTRAN believes the information in this publication to be accurate as of publication date, and is not responsible for error. Specifications subject to change without notice. ADTRAN, NetVanta, and Total Access are registered trademarks of ADTRAN, Inc. and its affiliates in the U.S. and certain other countries. All other trademarks mentioned in this document are the property of their respective owners. Five-year warranty applies only to products sold in North America.

ADTRAN products may be subject to U.S. export controls and other trade restrictions. Any export, re-export, or transfer of the products contrary to law is prohibited. For more information regarding ADTRAN's export license, please visit [www.adtran.com/exportlicense](http://www.adtran.com/exportlicense)