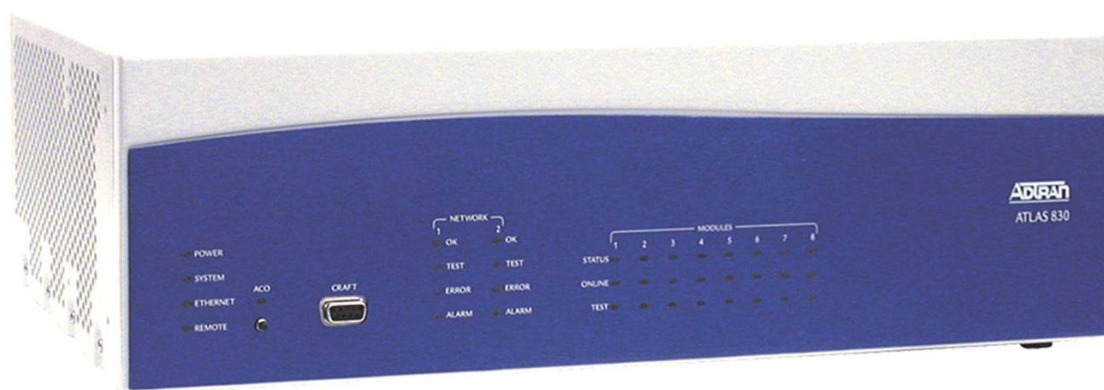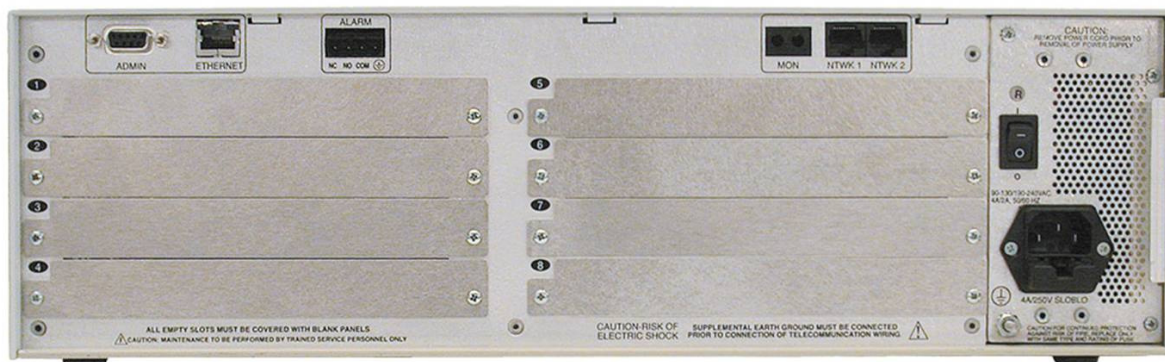# ATLAS 830

Enterprise Integrated Access Device

Front View

Rear View

Physical Interfaces

- **Integrated Ports**
    - Two T1/PRI Integrated Ports
    - One 10/100 Ethernet
    - DB-9 Port
    - Alarm Contacts

- **Expansion Slots**
    - Non-Redundant AC: 8
    - Redundant AC: 6

- **Supported User Modules**
    - Quad T1/PRI Module
    - Octal FXS Module
    - Octal BRI S/T Module
    - Quad V.35 Module

Physical Specifications

- Chassis: 3U Rackmount
- Dimensions: 5.5" H, 17.5" W, 12.5" D
- Weight: 15 lbs.
- Operating Temperature: 32°F to 113°F (0°C to 45°C)
- Mean Time Between Failure (MTBF): 138,344 Hrs

Power Specifications

- Auto-ranging Power: 90–240 VAC
- Power Consumption
    - 200 W Max
    - 688 BTU Max
- Max Current Draw: 3.5 A

WAN Protocols

- PPP
- Frame Relay

- T3 Module (Channelized Only)
- Nx56/64 Bonding Module (Required For Video Modules)
- Dual V.35 Video Module with 366 Dialing Interface
- Dual EIA-530 Video Module with 366 Dialing Interface
- Dual RS-449 Video Module with 366 Dialing Interface

Performance and Design Considerations

- **Ports**
  - T3Module: 3 Max (TDM Backplane Limits Apply)
  - T1/PRI: 34 Max
  - ISDN BRI: 64 Max
  - V.35 Interfaces: 32 Max
  - Analog FXS: 32 Max (4 Modules)

- **TDM/ISDN Backplane**
  - PRI to T1 Conversions: 10 Max
  - ISDN PRI Switchboard Capacity: 20 PRI Ports Max
  - TDM Backplane Bandwidth: 720 DS0s

- **Dial Plan**
  - Dial Plan Entries: 999
  - Accept/Substitution Template Entries: 99
  - Maximum Digit String For Accept Number: 31
  - Maximum Match Patter In Number Template: 40
  - NFAS
    - Backup D Channel: 1 max (Net Term Only and NI2 Only)
    - PRIs per NFAS Group: 8
    - Individual NFAS Groups: No limit (Limited Only by PRIs)
  - DSP Resources: 27*

- **Data (Internal Router)**
  - Packet Switching Bandwidth: 6 Mbps (4 T1s Max)
  - HDLC Resources: 35 **
    - 3 @ 2 Mbps Each
    - 32 @ 64 kbps Each
  - PPP Packet Endpoints: 35 Sessions
  - Frame Relay: 100 DLCI's
  - IP Router Bandwidth: 2.6 Mbps (40 DS0s)

* DSP Resources are used to generate Dial Tone, generate Ring Back, and generate digits to be propagated out of the unit.

** HDLC Resources are used when terminating the "D" Channel of a PRI and when terminating Packet Endpoints.

Administration and Management

- Telnet
- SNMP (Traps and Alarms Only)

Firmware Support

- Current Version: A04 (10/29/2004)
- Initial Version: A01 (08/20/2002)

Agency Approvals

- FCC Part 68
- FCC Part 15 Class A
- UL 1950, CUL

Warranty

- 5 Year (Repair & Return)
- **www.ADTRAN.com/Warranty**

Product Includes

- All ATLAS 830 units ship with the following:
  - 19" Rackmount Brackets
  - Power Cord (7.5')
  - ATLAS System CD
  - Two 15' RJ45/RJ45 Straight-Through T1 Cable
  - One 15' RJ45/RJ45 Cross Over T1 Cable

For additional product information including data sheets, manuals, installation guides, etc. please visit :
www.ADTRAN.com/ATLAS

For network design assistance or general inquires please visit:
www.ADTRAN.com/DesignAssistance

Ordering Information

Chassis & Upgrades	Part Number
ATLAS 830 Base Chassis AC	1200305E2
ATLAS 830 Redundant AC Power Supply	1200220L1
ATLAS 830 Spare Main AC Power Supply	1200224L1
ATLAS 830 23" Rack Adapter Kit	1200775L1

Modules	Part Number
ATLAS Quad T1/PRI Module	1200185L3
ATLAS Quad V.35 Module	1200184L1
ATLAS Octal FXS Module	1200338L1
ATLAS Nx56/64 Bonding Module	1200262L1
ATLAS Octal BRI S/T Module	1200343L1
ATLAS T3 Module	1200223L1
ATLAS Nx56/64 Bonding Module	1200262L1
ATLAS Dual V.35 Video Module	4200773L1
ATLAS Dual EIA-530 Video Module	4200773L2
ATLAS Dual RS-449 Video Module	4200773L3