



ATLAS 890

Fully Redundant Enterprise Integrated Access Device

Product Features

- Fully redundant logic and power supplies
- Supports AC and -48 vDC
- Modular chassis provides high port density
- Supports T1, T3, ISDN, and Frame Relay applications
- Supports all ATLAS 800 Series modules (hot swappable)
- System Controller includes software for multiplexing, 1/0 and 3/1/0 DACSing, IP routing, ISDN switching, and intelligent voice and data call routing
- System Controller includes Frame Relay software for access, concentration, and switching
- System Controller includes integral 10/100 BaseT Ethernet for IP routing and management
- Network emulation capabilities including T1, T3, BRI, PRI, E1, PRA, and Frame Relay

The ATLAS 890™ is the newest member of the ATLAS 800 Series product line and is a high-density, modular platform that provides complete system redundancy.

With the ATLAS 890, voice, data, video, and Internet applications are all supported in a modular platform that includes both logic and power supply redundancy.

The ATLAS 890 chassis includes a high-speed, multi-protocol backplane and modular expansion slots that support all the 800 Series option modules. The fully redundant ATLAS 890 AC version provides 13 options slots, while the redundant DC version provides 15 slots. These hot swappable, industry standard modules are available to effectively converge your telecommunications and existing network systems such as routers, PBX, key systems, video conferencing equipment and remote access servers. The ATLAS 890 performs the functions found in multiplexers, channel banks, 1/0 and 3/1/0 cross connect switches, Frame Relay access devices/concentrators/switches, IP routers, and ISDN switches all in a fully redundant platform. It also includes an integral voice switchboard and dial plan to dynamically and intelligently switch voice and data calls based on the telephone number dialed.

The ATLAS 890 supports multiple network technologies including T1/FT1/DSX-1, E1/PRA, ISDN, V.35 and 10/100 Ethernet. It is designed for use in high-port density applications to provide a more cost effective solution for T1, T3, ISDN and/or Frame Relay networks. With the modularity of ATLAS 890, users can now support 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 all with the security of full system redundancy.

For configuration and troubleshooting, the ATLAS 890 includes LEDs for complete operational status indications, front and rear VT100 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

System Controller

- Provides all processing, control, and management functions for the ATLAS 890
- Includes software for Frame Relay, PPP, and IP routing applications
- Built-in 10/100BaseT Ethernet port
- Fault detection circuitry
- Automatic error detection and switchover to hot standby controller
- Hot swappable
- Built-in EIA-232 ADMIN port
- Faceplate LEDs indicate ACTIVE, ONLINE, and LINK status
- Flash Downloadable for firmware upgrades
- Built-in Test Pattern Generator

Route Management

- RIP V1, RIP V2, ICMP, 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

ISDN Compatibility

- Lucent 4ESS/5ESS, Nortel DMS-100/250, 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
- Min/Max/Avg delay, dropped packets
- SNMP, MIB II (RFC1213), DS-1 MIB (RFC1406) and Enterprise NIB
- Loopbacks, QRSS, 511 test patterns
- Alarm contacts

Power Supplies

AC Power Supply

- 90-130 VAC
- Load sharing
- Includes input fuse
- Occupies two slots: 14/15 or 16/17

DC Power Supply

- -48 vDC
- Load sharing
- Includes input fuse
- Occupies one slot: 15,16, or 17

Physical

- Dimensions: 19"W x 11.5"D x 10.5"H

Environment

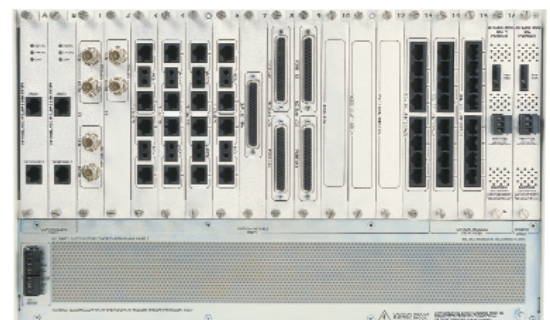
- Operating Temperature: 0° to +45° C agency approvals
- UL 1950, CUL,
- FCC Part 15 (Class A) and FCC Part 68

Product Includes

- ADTRAN utilities software (includes TFTP Server, VT 100 Client, Telnet)
- One RJ48-DB15 adapter
- One RJ48-DB9 adapter
- User manual on CD

Ordering Information

| Equipment | Part # |
|-----------------------------|-----------|
| ATLAS 890, AC Non-Redundant | 4200321L1 |
| ATLAS 890, AC Redundant | 4200321L2 |
| ATLAS 890, DC Non-Redundant | 4200321L3 |
| ATLAS 890, DC Redundant | 4200321L4 |
| ATLAS 890 System Controller | 1200322L1 |
| ATLAS 890 AC Power Supply | 1200344L1 |
| ATLAS 890 DC Power Supply | 1200345L1 |



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