

### Introduction

Atlas-160/260 is a powerful communications platform for medium-sized and large offices due to its high processing capacity and scalability offered by its 2 or 3 slots (Atlas-160, Atlas-260, respectively) for voice or data cards.

It contains advanced software for highly-demanding corporate environments, providing dynamic routing, service quality, security/VPNs, VoIP and management.

### Product Highlights

- ▶ Symmetrical services >300 Mbps with services
- ▶ Two/Three slot (SFP, E1, Serial, Eth, FXS/FXO, PRI)
- ▶ Hardware encryption
- ▶ Double Gigabit connection
- ▶ Advanced software, IPSec, ToIP, CLI
- ▶ Voice and data support
- ▶ Optional Wi-Fi access point

### Interfaces

### Atlas-160/260

Number of slots	Atlas-160: 2 slots. Atlas-260: 3 slots
2 x Electrical Ethernet Gigabit Ports	Yes
802.11abgn Wi-Fi access point	Optional
Console port	Yes

### Competitive Advange

Powerful and scalable platform	For medium-sized offices, capacity of over 100 Mbps with active services
Two/three expansion slots	Atlas-160: 2 expansion slots. Atlas-260: 3 expansion slots.
Wide range of cards	Adjustable for multiple connections through its wide range of voice and data cards (SFP, E1/T1, Serie, FXS/FXO, PRI, SFP, etc.)
Rack mountable format	Designed for a 19-inch rack and internal source

# Scenarios

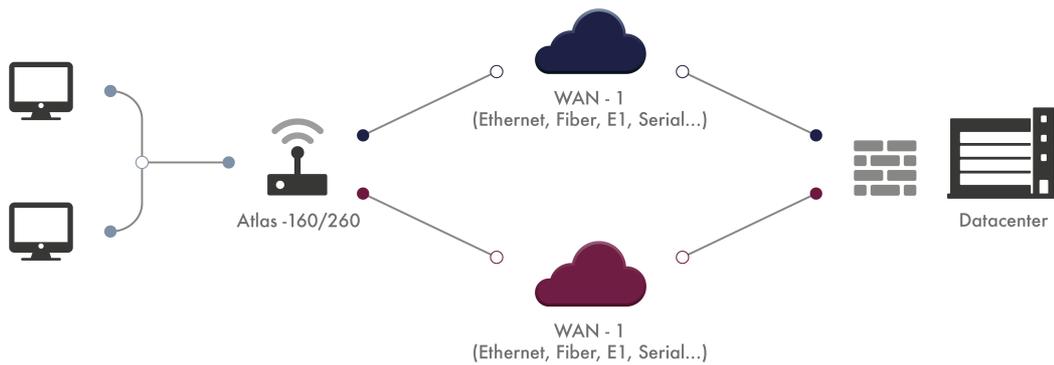


Figure: Redundant network connection

## Key Features

**High performance for high-speed scenarios** Appropriate for use in symmetrical scenarios of over 300 Mbps IMIX with services enabled through its hardware architecture.

**High encryption capacity, including hardware engine** Appropriate for use in symmetrical encryption scenarios of over 100 Mbps IMIX due to its powerful hardware encryption.

**Double Gigabit Ethernet connection** Double Gigabit Ethernet serial interface that does not occupy a slot. This prevents scalability and use of other access technologies and/or voice ports from being compromised.

**Two/three expansion slots as per model** Atlas-160: 2 slots. Atlas-260: 3 slots. Wide selection of voice (FXS/FXO, BRI, PRI, E&M) and data cards (1 or 4xE1, 4xEth, 2xSFP, 2xBRI, 1 or 3xSerial, etc...)

**Optional 802.11abgn MIMO 2X2 Wi-Fi** A Wi-Fi access point is also available upon request with 2 external antennas and non-simultaneous 2.4/5 GHz band support.

**Multi-protocol telephone survival** In remote VoIP scenarios, telephones continue to operate when the IP network connection is lost, supporting analog voice and digital lines.

**Security: 802.1X, ACLs, Firewall and DMVPNs (IPSec)** Corporate communications require corporate security. Atlas-160/260 includes state-of-the-art security free of charge: ACLs, Firewall, 802.1X, IPSec (hardware encryption included), etc.

**Advanced functions required in managed services** Atlas-160/260 includes software with advanced functions required in corporate networks and operator services, prepared for highly demanding scenarios like MPLS and managed services.

**Especially designed for installation on racks** Medium-sized and large offices require equipment that can be installed in standard communications cabinets with adequate forced ventilation. Atlas-160/260 is especially designed for such installations.

**Console port for out of band management** Managed Operator and Integrator services require out of band management to prevent interference with the client's network and the console port is the most common method used.

## HARDWARE TECHNICAL FEATURES

### 2/3 expansion slots.

Atlas-160: 2 expansion slots. Atlas-260: 3 expansion slots.

Voice cards: FXS/FXO, E1/Primary, BRI, E&M

Data cards: Fibra Optics (SFP), E1/PRI, BRI, Serial, Eth. Switch

### Local wireless connection

Access Point mode 802.11abgn selectable 2.4/5 GHz

MIMO 2x2 with external antennas (SMA connector)

WEP, WPA, WPA2 security. WMM QoS service quality Multi SSID

### Dimensions and Weight

Length x Width x Height: 415 x 310 x 45 mm

Approximate weight: 3.5 Kg

Format: Standard 19-inch rack

### Gigabit connection to the local and extended network

Two Gigabit Ethernet ports

Both can be used separately to connect to the local or extended network.

Electrical interface: 10/100/1000 Mbps and RJ45 connector

### Console interface

RJ45 connector with proprietary pinouts (including adapter)

Type RS232, N81

Default speed 9600 bps, maximum speed 115200 bps

### Environmental specifications

Temperature: 5 to 55°C

Relative humidity: 5 to 85%

Atmospheric pressure: 860 to 1060 mbars

## SOFTWARE TECHNICAL FEATURES

### IP protocol

ARP, ARP Proxy, MTU discovery, NAT, ECMP, BFD

RIP, OSPF, BGP, Policy based static and dynamic routing

Virtual Router Forwarding (Multi-VRF)

### Security

IPSec support in transport and tunnel mode

Pre-shared authentication, RSA, Certificates, MDS, SHA-1

Encrypted: DES (56 bits), 3DES (168 bits), AES (128, 192 and 256 bits)

### IP services

DHCP, DNS, FTP, SFTP, SSH, Telnet server and client

NTP, LDAP, Syslog, SCP client. TFTP server

DHCP, dynDNS relay

### IPv6.

Dual Stack, IPv6oIPv4, IPv4oIPv6, GRE, 6rd, DHCPv6, ICMPv6, SLAAC

Static and dynamic routing RIPng, OSPFv3, MP-BGP

Multicast: MLD, MLDv2, Listener, Querier

### Management

CLI configuration and storage in a plain text file

Assignment of user and group licenses

RADIUS and TACACS+ AAA support

### IP protocol (2)

Multicast: IGMP (v1,v2, v3), PIM-SM, MSDP, MLD, MLDv2

IPSLA service probes (delay, package loss, jitter)

High availability: VRRP, TVRP (HSRP compatible)

### Security (2)

Certificates: CSR, SCEP, X.509v3, PKIX, LDAP revocation

Static and dynamic access lists and session-based Firewall

Detection of DoS and DDoS attacks

### Service quality

Classification, marking, BW management, BW prioritisation and limitation

Up to 32 types 16 queues per interface

Strict policies (PQ), Low latency (LLQ), according weight/type (WFQ, CBWFQ)

### VoIP

Protocols: SIP (UDP, TCP, TLS), H323, UA-NOE, SRTP, SCCP

Support for terminals SIP, UA-NOE, H323, SCCP

Surviving services: Calls, hold, transfers

### Management (2)

Netflow, RMON V5 and V9, SNMPv1, v2c y v3, Syslog support

Manageable via SMS

Remote Wireshark compatible traffic collection

## ADDITIONAL TECHNICAL FEATURES

2 additional LEDs for each Ethernet port (link, speed and activity)

1xPower, 2xSlot

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## Atlas-160/260 corporate router

High-performance multi-service modular router



**Teldat is a leading provider in Enterprise Communications equipment and Services for the top corporate to mid-sized and SME markets.**

### About TELDAT



**ROUTERS | Wi-Fi | MANAGEMENT | TRANSPORT | SMART GRID | INDUSTRIAL | VoIP | CLOUD | SECURITY | NFV |**

Teldat Group is a leading technology holding that designs, manufactures and distributes advanced Internetworking platforms for corporate environments, providing new and cutting-edge communication solutions without ever losing sight of its customers real requirements. Teldat's solutions development is based on proprietary technology, which is in the Group's DNA. This allows Teldat to be a leading provider in Enterprise Communications equipment and Services for the top corporate to midsized markets, as well as the SME and SoHo markets.

From a geographical viewpoint, Teldat Group has a presence in all continents, with its corporate headquarters located in Spain, and operational affiliates in Europe (Germany, Austria, Portugal, Italy and France) and in LATAM (Mexico and Brazil), as well as two business development offices in USA and China.



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