

### Introduction

Atlas-360 is a powerful communications platform for large offices, concentration pathways and, in general, environments requiring a high level of scalability in performance and connectivity.

Focused on Gigabit connections (optical/electrical) to the external and local network, expandable to complex voice and data configurations and the option to integrate an Ethernet switch and Wi-Fi access point.

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
- ▶ Four voice/data slots
- ▶ One slot for a 16-port switch card
- ▶ Double electrical/optical Gigabit connection
- ▶ Advanced software, IPSec, ToIP, CLI
- ▶ Voice and data support
- ▶ Optional Wi-Fi access point

### Interfaces

2 x Electrical Ethernet Gigabit Ports	For local or external connections
Four voice/data expansion slots	Cards: SFP, E1, Serial, BRI, FXS/FXO,
1 16-port switch card	Possibility of integrating 16xFE PoE
802.11abgn Wi-Fi access point	Optional
Console port	Yes

### Atlas-360

### Competitive Advange

Powerful and scalable platform	For large offices and concentration, capacity of over 400 Mbps IMIX with active services
Dual electrical/optical Gigabit interfac	Maximum transfer speed to external and local networks.
Four voice/data slots	Four slots available for voice/data cards and a wide range of cards (SFP, E1/T1, Serie, FXS/FXO, PRI, SFP, etc)
Local network integration	All-in-one, slot for integrating 16xFE PoE switch

# Scenarios

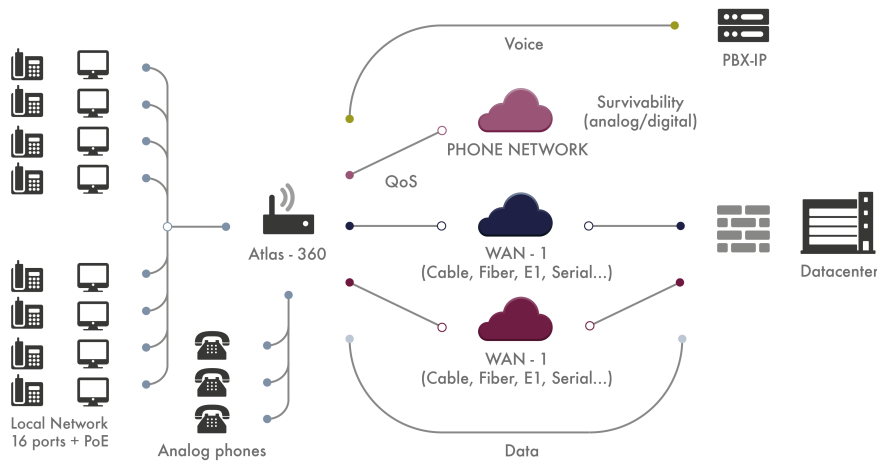


Figure: A single device for the external and local network

## Key Features

**High performance for large offices/concentration** Services suitable for use in highly demanding scenarios: over 400 Mbps in each IMIX traffic direction with active services.

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

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

**Four voice/data expansion slots** 4 slots and a wide selection of voice (FXS/FXO, BRI, PRI, E&M) and data cards (1 or 4xE1, 4xEth, 2xSFP, 2xBRI, 1 or 3xSerial) to achieve complex configurations

**One slot for integrating a local network** One dedicated slot enables the integration of up to 16 Fast Ethernet ports with a PoE option, which permits a single connection to the local and external network.

**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-360 includes state-of-the-art security free of charge: ACLs, Firewall, 802.1X, IPSec (optional hardware encryption), etc.

**Advanced functions required in managed services** Atlas-360 includes software with advanced functions required in corporate networks and operator services, prepared for highly demanding scenarios like MPLS and managed services.

**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

### 4 expansion slots.

Four voice and/or data card expansion slots

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

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

### Gigabit connection to the local and extended network

2 x GB Ethernet electrical/optical connections to local and/or external net

Optical interface: SFP at 1000 Mbps

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

### Dimensions and Weight

Length x Width x Height: 444 x 395 x 44 mm

Approximate weight: 4 Kg

Format: Standard 19-inch rack

### One slot for integrating a local network

One slot for integrating a local network

Capacity: 16 x Fast Ethernet

PoE option

### 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

### Environmental specifications

Temperature: 5 to 45°C

Relative humidity: 8 to 85%

## 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, DHCP, 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/types

(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

### LEDs

Type RS232, N81

Default speed 9600 bps, maximum speed 115200 bps

Power, status, 2 LEDs per voice/data slot, 2 Wi-Fi LEDs

### RJ45 connector with proprietary pinouts (including adapter)

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

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## Atlas-360 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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