

### Introduction

Atlas-i70 is combination of connectivity, network electronics plus performance make it the ultimate router for the remote office.

- Connectivity: Electrical/optical Gigabit interface plus two slots capable of addressing a variety of interface cards and advanced routing software.

- Network electronics: Built-in 8-port Gigabit switch, expandable to 16 with the option to supply power over the Ethernet line (Max. 12xPoE ports).

- Performance: Based on a optimized hardware architecture that allows to the router to offer high performance in the transmission and encryption of corporate data.

### Product Highlights

- ▶ Up to 1 Gbps symmetrical services
- ▶ Hardware encryption for high VPN performance
- ▶ Two slots (SFP, VDSL, G.SHDSL, E1, Serial,etc.)
- ▶ Built-in electrical/optical port
- ▶ Built-in, expandable 8-port switch, optional PoE
- ▶ Advanced software, IPSec, ToIP, CLI
- ▶ Traditional or SDWAN integrated router

### Interfaces

### Atlas-i70

2 x expansion slots	Cards SFP, VDSL, G.SHDSL, E1,Serial,etc.
Electrical/optical Gigabit Ethernet port	Optional (remotely activated)
8-port Gigabit Ethernet switch	Yes
PoE support(Up to 12xports)	Yes
Console port	Yes
Reset button	Yes
USB port for 3G/4G modems	Yes

### Competitive Advantage

Powerful and scalable platform	New generation of high-power processors with the ability to scale to 1 Gbps services.
SDWAN router	Teldat-i70 enables smooth transition from traditional communications in remote offices to a hybrid SD-WAN network.
Two expansion slots	Can be adapted to a myriad of connectivity scenarios thanks to a variety of cards ADSL/VDSL, G.SHDSL, E1/T1, Serial, PoE Ethernet switch.
Extensive local connectivity	Up to 16 10/100/1000 Ethernet ports with advanced VLAN functions, 802.1p/q/x. Optional PoE out(IEEE 802.3af) from 4 to 12 switch ports.

# Scenarios

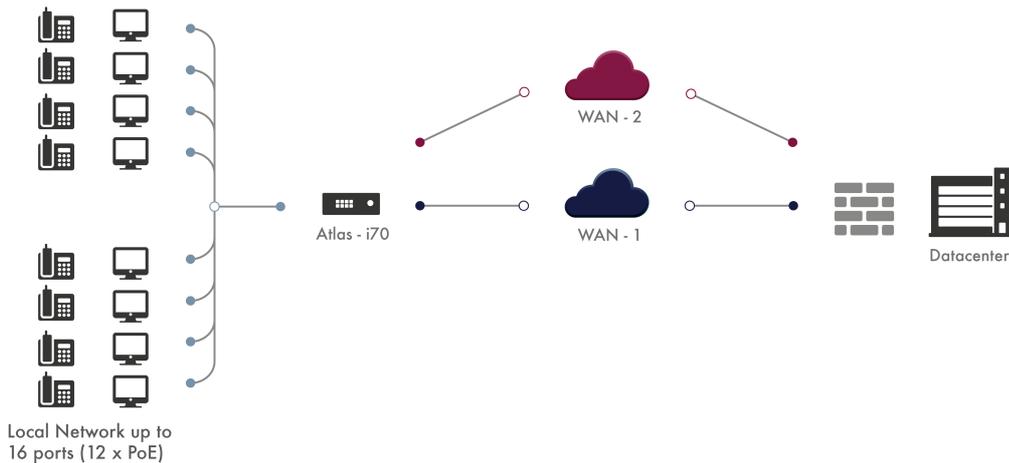


Figure: Fixed and mobile connectivity

## Key Features

**Up to 1 Gbps** Reliable in scenarios of up to one Gbps symmetrical (IMIX) services thanks to its powerful hardware architecture with hardware encryption.

**High encryption capacity** Teldat offers IPSec VPNs that are compatible with the most common solutions in the market and with a higher performance rate than their competitors in relation to cost.

**Electrical/optical port on motherboard-not occupying** Dual built-in electrical/optical Gigabit Ethernet interface that does not take up a slot. No compromise on scalability and the use of alternative access technologies (such as G.SHDSL, E1 or ADSL/VDSL) as redundant path.

**8xGE switch on the motherboard, not taking up a slot** The built-in switch is ideal for small offices because it eliminates the need for an external switch, thus reducing costs and points of failure. GE, duplex, self-negotiable ports with optional PoE.

**Double slot and wide range of cards** In addition to WAN and LAN access, it also has two slots that allow it to adapt to complex double/triple connection scenarios with the external network. Cards include FO, VDSL, Serial, 8xGE, E1/T1, G.SHDSL, etc.

**Central management and ZTP provisioning** Atlas-i70 can be managed with Cloud NetManager tool and it supports "Zero Touch Provisioning" for easy network deployments.

**Security: Firewall, IPSec, etc.** Corporate communications require corporate security. The Atlas-i70 provides the state-of-the-art in security. ACLs, Firewall(L3-L7), 802.1x, IPSec (optional hardware encryption), etc.

**Advanced services** The Atlas-i70 software includes all the advanced functions needed in corporate networks and operator services, ready for the most demanding scenarios like MPLS and managed services.

**Specifically designed for installation on racks** Medium and large offices devices need to be fitted in standard cabinets with forced ventilation. The Atlas-i70 is specifically designed for these types of installations.

**Console port** Operator/integrator managed services require out-of-band management to prevent them from interfering with customer networks. The console port is the most common method.

## HARDWARE TECHNICAL FEATURES

### Two expansion slots

WAN cards: Fiber, ADSL/VDSL, Fiber + ADSL/VDSL, G.SHDSL, E1/T1, Serial

LAN cards: 8xGE with optional PoE

WAN+LAN cards: 4xGE switch extension/WAN configurable

### Private network Ethernet connection

8-port Ethernet switch 10/100/1000

Optional PoE on 4 ports(Max 12xPoE ports)

RJ45 connector

### Dimensions and weight

L x W x H: 442 x 320 x 44 mm

Approximate weight: 4 Kg

Format: Desktop and additional rack mount bracket

### Optical/electrical Gigabit interface

SFP optical interface and RJ45 electrical interface (mutually exclusive)

Optical interface: 1000 Mbps (1000BASE-X) LX/LH-SX-ZX

Electrical interface: 10/100/1000 Mbps

### Storage slots for data storage\*

Standard hard drive slot, accessible from the outside

SD memory card slot for data that don't need very much space

\*For future use of applications

### Environmental specifications and Power Supply

Temperature: 0 to 40 °C, Relative humidity: 5 to 90%

Atmospheric pressure: 700 to 1060 mbars

Power Supply range btw 100 to 240 VAC and 50 to 60Hz

## SOFTWARE TECHNICAL FEATURES

### IP protocol

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

RIPv1/2,OSPFv3,BGPv4,Load balancing,PBR-Policy Based

static/dynamic Routing

Virtual Router Forwarding (Multi-VRF)

### Security

IPSec support in transport and tunnel mode

Authentication: Pre-shared, RSA, Certificates, MSD, SHA-1

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

### IP services

DHCP, DNS, FTP, SFTP, SSH server v1/2, Telnet server and client

NTP, LDAP, Syslog, SCP client. TFTP server

DHCP, dynDNS relay

### IPv6

Dual Stack, IP6oIPv4, IPv4oIPv6, GRE, 6rd, DHCPv6, ICMPv6, SLAAC

RIPng, OSPFv3 and MP-BGP static and dynamic routing

Multicast: MLD, MLDv2, Listener, Querier

### Management

CLI configuration and storage in a plain text file

Cloud Net Manager tool(HTTPS based)

TACACS+ and RADIUS AAA support, Netflow, RMON, SNMPv1, v2c y v3

### IP protocol (2)

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

IPSLA service probes (delay, packet 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

Dos/DDoS detection

### Quality of Service QoS

IP Precedence, DiffServ and COS labeling for BW management

BW prioritization and limitation

Up to 16 queues per interface. PQ,LLQ,WFQ,CBWFQ,WRED

### VoIP

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

SIP, UA-NOE, H323 and SCCP terminal support

Survival services: calls, hold, transfers

### SDWAN networks

Overlay over hybrid networks with App-aware routing, QoS and Visibility

Central SD-WAN flow control including Zero Touch Provisioning Applications Service Chaining

## ADDITIONAL TECHNICAL FEATURES

### Console interface

RJ45 connector with proprietary pinouts (adapter included)

Type RS232, N81

Default speed 9600 bps, maximum speed 115200 bps

### MTBF and maximum power consumption

MTBF: 467 KHours

Max. Power: 40W without external USB

### LEDs

Power supply, slot, USB, status, switch

GE-SFP, GE-Eth, HD/SD

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

# FLEXIBLE

## COMMUNICATIONS SOLUTIONS

### THAT GROW WITH YOU.

## Atlas-i70 corporate router

Modular router for 1 Gbps services



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

### About TELDAT



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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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**Teldat**

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