Teldat

Atlas-60/i60

Atlas-60/i60 corporate router(EOS in October 2018)

Introduction

The Atlas-60/i60 has evolved the concept of the router. Featuring high modularity and power, making it suitable for use in almost any office connectivity scenario (large or small), the device also integrates traditional elements like switch, telephony, Wi-Fi and security. The device includes a secure, standards-based application server, on which you can safely run easily-managed native Linux applications without affecting router processing or performance.

Destacar

- **Symmetrical services 100 Mbps with services**
- **Support for Linux and Hard Drive applications**
- **Three slots (SFP, VDSL, G.SHDSL, E1, Serial, etc.)**
- **Integrated expandable 8-port switch. PoE optional**
- **Advanced software, IPSec, ToIP, CLI**
- **Communications/applications cloud management**
- **Optional Wi-Fi access point**

Interfaces

3 expansion slots.	Cards SFP, VDSL, G.SHDSL, E1, Serial…
2 x Electrical Ethernet Gigabit Ports	Yes
8-16 port Fast Ethernet switch	8 default ports 16 occupying a slot
802.11abgn Wi-Fi access point	Optional
USB port for 3G/4G modems	Optional (licensable)
Console port	Yes

Competitive Advantage

Powerful and scalable platform	For medium-sized offices, capacity of over 100 Mbps with active services
Support for applications	Router + Server in one device. Independent CPU cores house a proprietary real time O.S. for routing and an O.S. Linux Debian for applications.
Three expansion slots	Adjustable to multiple connection scenarios thanks to a wide range of cards available (ADSL/VDSL, G.SHDSL, E1/T1, Serial, PoE Ethernet switch)
Extended local connection	8/16 Ethernet ports 10/100 with advanced functions VLAN, 802.1P/Q/X and Wi-Fi 802.11n Access Point. Optional PoE.

Key Features

- **Suitable for use in corporate scenarios up to 100 Mbps** Suitable for use in scenarios of up to 100 Mbps IMIX with symmetrical services through its powerful hardware architecture that includes hardware encryption.

- **Double GE network connection without occupying a slot** Double Gigabit Ethernet electrical interface that does not occupy a slot. This prevents scalability and use of other access technologies like G.SHDSL, E1 or ADSL/VDSL as a redundant access from being compromised.

- **Triple slot and wide range of cards** In addition to WAN and LAN access, it is also equipped with three adjustable slots for complex double or triple external network connections. Cards FO, VDSL, Serial, E1/T1, G.SDHSL, etc. available

- **Security: Firewall, IPSec, …** Corporate communications require corporate security. Atlas-60/i60 includes state-of-the-art security free of charge: ACLs, Firewall, 802.1X, IPSec (optional hardware encryption), etc.

- **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-60/i60 is especially designed for such installations.

- **Router and server in a single device.** Dual core CPU, where one core is dedicated to routing and Linux Debian available for applications uses the other No processing elements need to be added

- **8xFE switch on a baseplate expandable to 16** The integrated switch is ideal for small offices as it avoids the use of an external switch and therefore reduces costs and failure points. Duplex, self-negotiable ports with a PoE option.

- **Application storage** A smaller or larger storage system is required according to the size of the applications running on the device, for which it is equipped with an internal hard drive or USB Flash memory card.

- **Advanced services** Atlas-60/i60 includes software with advanced functions required in corporate networks and operator services, prepared for highly demanding scenarios like MPLS and managed services.

- **Console port** 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.

CARACTERíSTICA TéCNICA DEL HARDWARE

3 expansion slots
1 slot for DSL cards: ADSL/VDSL or G.SHDSL
One slot for WAN or Voice cards (DSL, E1/PRI, FO, FXS/FXO, serial, etc.)
One slot for switch or WAN/voice card expansion

Gigabit network connection
Two Gigabit Ethernet ports
Use as redundant WAN and LAN/DMZ
Electrical interface: 10/100/1000 Mbps and RJ45 connector

Local Ethernet connection
8-port 10/100 Ethernet switch
16-port 10/100 Ethernet switch
Optional PoE

Local wireless connection
802.11abgn selectable band (2.4/5 GHz) with access point mode
2x2 MIMO external antennas (SMA connector)
WEP, WPA, WPA2 security. WMM QoS. Multi SSID

Dimensions and Weight
Length x Width x Height: 440 x 348 x 47 mm
Approximate weight: 4.5 Kg
Format: desktop and rack mount support bracket

Environmental specifications
Temperature: 0 to 40 ºC
Relative humidity: 5 to 85%
Atmospheric pressure: 860 to 1060 mbars

CARACTERíSTICA TéCNICA DEL SOFTWARE

IP protocol
ARP, ARP Proxy, MTU discovery, NAT, ECMP, BFD
RIP, OSPF, BGP, policy-based static and dynamic routing
Virtual Router Forwarding (Multi-VRF)

IP protocol (2)
Multicast: IGMP (v1,v2, v3), PIM-SM, MSDP, MLD, MLDv2
IPSLA service probes (delay, packet loss, jitter)
High availability: VRRP, TVRP (HSRP compatible)

Security
IPSec support in transport and tunnel mode
Pre-shared authentication, RSA, Certificates, MDS, SHA-2
Encryption: DES (56 bits), 3DES (168 bits), AES (128, 192 and 256 bits)

Security (2)
Certificates: CSR, SCEP, X.509v3, PKIX, LDAP revocation
Static and dynamic access lists and session-based firewall
DoS/DDoS detection

IP services
Telnet, DHCP, DNS, FTP, SFTP, and SSH server and client
NTP, LDAP, Syslog, SCP client. TFTP server
DHCP, dynDNS relay

Service quality
Classification, marking, bandwidth management, prioritization and limiting
Up to 32 types 16 queues per interface
Strict policies (PQ), Low latency (LLQ), according weight/types (WFQ, CBWFQ)

IPv6.
Dual Stack, IP6oIPv4, IPv4oIPv6, GRE, 6rd, DHCPv6, ICMPv6, SLAAC
RIPng, OSPFv3 and MP-BGP static and dynamic routing
Multicast: MLD, MLDv2, Listener, Querier

VoIP
Protocols: SIP (UDP, TCP, TLS), H323, UA-NOE, SRTP, SCCP
Support for terminals SIP, UA-NOE, H323, SCCP
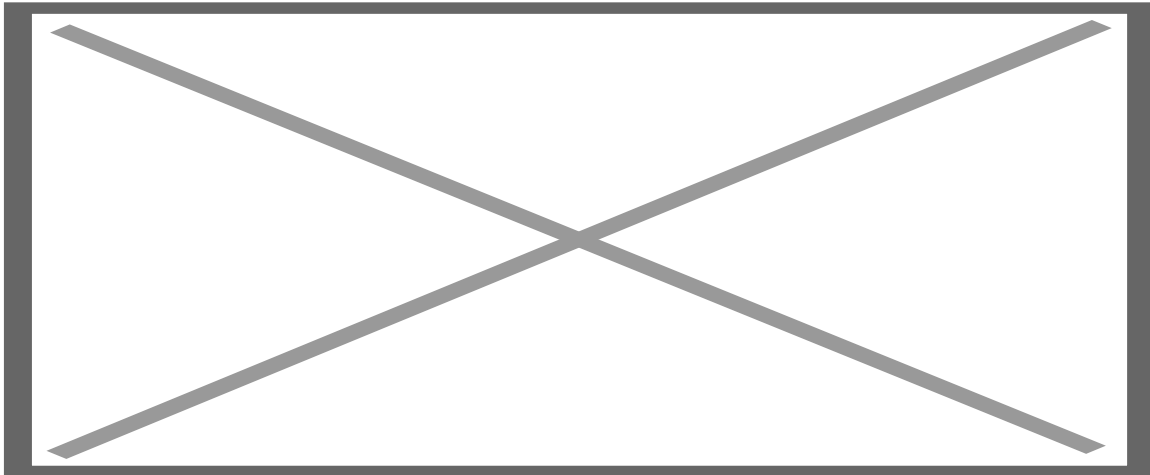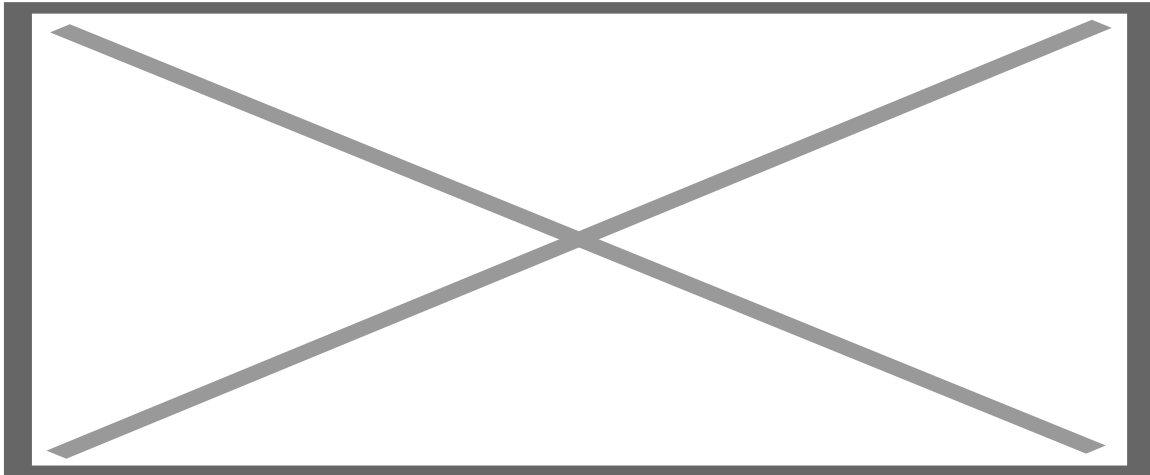Surviving services: calls, calls held, calls forwarded

Management
CLI configuration and storage in a plain text file
User/group license assignment
RADIUS and TACACS+ compatible AAA support

Management (2)
Netflow, RMON V5 and V9, SNMPv1, v2c y v3, Syslog support
Manageable via SMS
Wireshark-compatible remote traffic capture

CARACTERíSTICA TéCNICAS ADICIONALES

LEDs
Power, Slot (2), USB, Wi-Fi, Hard Drive
2 additional LEDs per Ethernet port (link, speed and activity)

Console port
Type RS232, N81
Default speed 9600 bps. Maximum speed 115200 bps
RJ45 connector with proprietary pinouts (including adapter)

Scenarios