Atlas-840

Atlas-840: High performance edge router

Introduction

The Atlas-840 is a powerful and flexible edge router thanks to an optimized hardware architecture that includes several 10Gbps interfaces.

This new device with multi-core architecture delivers high performance and low processing latencies being the optimal solution for headquarters or main offices with top requirements for a large number of users.

Together, HW innovation and SW evolution in this device offer customers a high level of productivity and a very good user experience.

The Atlas-840 is a carrier-grade device that can migrate to SDWAN services in an easy way delivering all the Teldat SDWAN advantages to IT managers.

Destacar

- **Ready for high performance services**

- **Traditional or SDWAN integrated router**

- **Complete VPN server for headquarters**

- **Optimal solution for regional/big branch offices**

- **4x 10Gbps interfaces for multi-WAN services**

Interfaces

Multi-WAN services	4x SFP+ ports
Local switch	8xGE switch ports
USB ports	For future purposes
Console port	Yes
Reset button	Yes

Competitive Advantage

Flexible platform for all scenarios	The Atlas-840 supports many 10Gbps scenarios: 2xWAN and embedded switch, 1xWAN+1xLAN(external switch), and 2xWAN + 2xLAN for high availability requirements.
SDWAN router	The Atlas-840 enables a smooth transition from traditional communications in remote offices to a hybrid SDWAN network.
Top level VPN server	Security in communications or online work is solved with the new Atlas-840 equipment thanks to its encryption capacity and redundancy features.

Key Features

- **High performance for advanced routing services** Reliable in scenarios up to 5Gbps IMIX aggregated with services thanks to its powerful hardware multi-core architecture

- **Flexible high speed ports configuration** 4x 10Gbps interfaces are available in any type of configuration, as WAN or LAN ports

- **Dual power supply models for critical services** Critical services are 24x7x365 available so for these scenarios there are Atlas-840 with redundant PSU

- **Professional and carrier grade software features** Atlas-840 software has been validated in many validation processes for corporate services around the world

- **Powerful hardware encryption** Last multicore CPU generation with embedded hardware encryption

- **Integrated switch** 8xGE switch port for scenarios without local network resources saving the customer additional investment in hardware and avoiding additional points of failure.

- **Corporate security cloud solutions** The Atlas-840 supports software security features and additional cloud services like be.Safe Smart for soft requirements in security and be.Safe Premium for complete threat protection.

- **Console port for out-of-band management** Operator/integrator managed services require out-of-band management to prevent them from interfering with customer networks. A console port is available for local managers with secure access.

CARACTERíSTICA TéCNICA DEL HARDWARE

10Gbps interfaces
4x SFP+ ports

Gbps interfaces
8xGE switch ports
Electrical interface: 10/100/1000 Mbps
RJ45 female

Dimensions and Weight
264 x 483 x 44 mm.
Approximate weight: 4 Kg
Format: 19-inch chassis with rack accessory; fan?less design

Environmental specifications
Temperature: 0 to 40 ºC, Storage: -40ºC - +70ºC
Atmospheric pressure: 700 to 1060 mbars
Operational: 5-90% non-condensing

Internal Power supply
100-240V AC IN 50 to 60Hz
Max. Power Consumption 60W

CARACTERíSTICA TéCNICA DEL SOFTWARE

IP protocol
ARP, ARP Proxy, MTU discovery, NAT/PAT, ECMP, BFD
RIPv1/2,OSPFv3,BGPv4,Load balancing,PBR-Policy Based
static/dynamic Routing
Virtual Router Forwarding (Multi-VRF)

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

Security
IPSec support in transport and tunnel mode. DMVPN
Pre-shared authentication, RSA, Certificates, MDS, SHA-1
Encrypted: 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(ACLs) and session-based Firewall
DoS/DDoS detection

IP services
DHCP, DNS, FTP, SFTP, SSH server v1/2, Telnet server and client
NTP, LDAP, Syslog, SCP client. TFTP server
DHCP, dynDNS relay

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

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

VoIP
Protocols: SIP (UDP, TCP, TLS), H323, UA-NOE, SRTP, SCCP
Support for terminals SIP, UA-NOE, H323, SCCP
Survival services: calls, hold, transfers

Management
CLI configuration and storage in a plain text file
Cloud Net Manager tool(HTTPS based)
RADIUS and TACACS+ AAA support, Netflow, RMON, SNMPv1, v2c y v3

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

CARACTERíSTICA TéCNICAS ADICIONALES

Console interface
RJ45 connector with proprietary pinouts (including adapter)
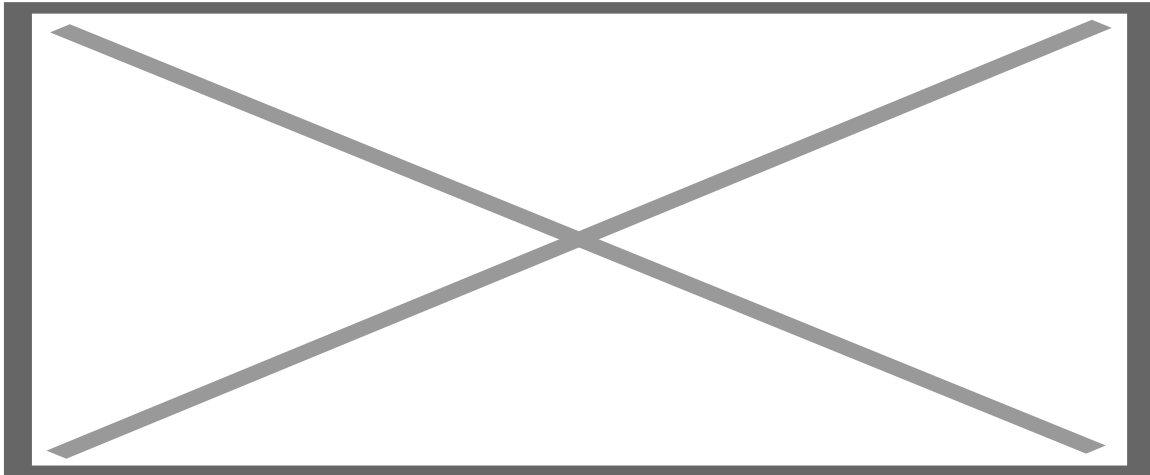Type RS232, N81
Default speed 115200 bps

LEDs
RJ45: Left Yellow Link/Act; Right Yellow GE Link; Right Green 100M Link
SFP+: single light, green Link/Act
Panel: 1*4(green/yellow/yellow/yellow): software controllable

Memory
RAM: 4GB DDR4
FLASH: 8GB eMMc

Scenarios