Teldat RS123

RS123 Corporate router

Introduction

By combining two of the most popular fixed access methods (Ethernet and Fiber) and 3G/4G connectivity, as an extremely effective backup mechanism, the Teldat RS123 router family is the ultimate IP communications solution for small and medium offices in WAN services up to 300Mbps.

The Teldat RS123 router family also covers the main requirements for LAN connectivity including a 4xport GE switch, a Wi-Fi access point depending on the model and WLAN controller for additional APs.

The routers delivers advanced encryption and security with IPSec VPNs with an exceptional performance.

Destacar

- **Flexible WAN connectivity: FTTH/Fiber**
- **Integrated switch for local devices**
- **VPN Gateway**
- **Models with LTE modem and/or Wi-Fi 802.11n access**
- **Smart design, no fan, silent**

Interfaces

WAN	Combo GE Ethernet & SFP(optional)
LAN	4-switch ports 10/100/1000 Mbps
Mobile access (4G)	Yes (LTE Cat.4)
Wi-fi Access Point	Yes (Teldat RS123w/RS123w-4G models)
USB 2.0 host	Yes (for 3G/4G sticks)
Console port	Yes
Reset button	Yes

Competitive Advantage

Oriented to professional networks	Teldat RS123 series are a professional family routers specially adapted to SMEs or branch locations
Extensive local connectivity	4x 10/100/1000 Ethernet ports with advanced VLAN functions, 802.1p/q/x and 802.11n Wi-Fi access point.
Professional software(CIT)	Teldat´s command-line configurable operating system, backed by hundreds of thousands of units in the most demanding environments and carrier services.
Designed for work areas	Fanless-metal housing, they offer long-term reliability for business-critical applications and make them suitable for office installation (no noise).

Key Features

- **Gigabit Ethernet or SFP WAN connection.** The Teldat RS123 routers are reliable in branch office/SOHO scenarios thanks to its WAN connections and optimized architecture with hardware encryption.

- **4xGE switch.** 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. Auto detectable 10/100/1000 speed, duplex and self-negotiable ports.

- **Security: Firewall, IPSec, etc.** Corporate communications require corporate security. The Teldat RS123 routers provides the state-of-the-art in security: ACLs, Firewall, 802.1x, IPSec, Level 7 filtering (optional deep packet inspection required)

- **Advanced services.** The Teldat RS123 router software includes all the advanced functions needed in corporate networks and operator services, ready for the most demanding scenarios like MPLS and managed services.

- **Console port** Managed services from carriers or ISPs usually requires out-of-band management to prevent them from interfering with customer networks. The console port is the most common method for this management.

- **3G/4G connectivity.** 4G-LTE wireless access is the perfect backup medium as it uses different infrastructure to fixed connections. The router can manage 4G-LTE and fixed connections simultaneously for load-balancing purposes.

- **Wi-Fi access point.** With the Teldat RS123 routers, you also have the option of an 802.11n Wi-Fi access point (2.4 or 5 GHz) with 2x2 MIMO antenna technology and external access point controller. Multi-SSID configuration supported.

- **VoIP server.** Complete SIP server with basic SBC (session border controller) included by default. It can be used to isolate/conceal the internal voice network, to improve voice security, and for survival purposes.

- **No fan. Silent.** Lack of space in small offices often means that routers have to be placed in the work area. The Teldat RS123 routers are specially designed for such environments.

- **WLAN controller** The Teldat RS123 router includes a WLAN controller and let you configure small- and mid-sized WLAN networks with up to 6 access points.The software continually monitors the entire wireless network for troubleshooting.

CARACTERíSTICA TéCNICA DEL HARDWARE

LAN connectivity
4x 10/100/1000 ports (LAN/WAN/DMZ configurable)
RJ45 connector, 802.3i, 802.3u, 802.3ab, autosensing, IEEE 802.3u,
VLAN and 802.1x

WAN Combo GE & SFP
1x 10/100/1000 LAN port
1x 1000 Mbps SFP slot (Optional, license required)

Wi-Fi interface (RS123w/RS123w-4G models)
Selectable 802.11abgn access point mode (2.4/5 GHz)
2x2 MIMO external antennas (SMA connector)
WEP, WPA, WPA2 security. WMM QoS, multi SSID

WWAN interface (RS123-4G model)
Built-in hardware module with LTE/HSPA+/GPRS/GSM
Category 4 with 2 external antennas. SMA connector
USB 2.0 host interface for USB 3G/4G sticks

Models without Wi-fi*/with Wi-fi*:
RCRSH123L, RCRSH1234GLQEU, RCRSH1234GLQAM
RCRSH123WL, RCRSH123W4GLQEU, RCRSH123W4GLQAM
*Optional license for SFP slot. Additional models for local regions.

Dimensions and environmental specifications
L x W x H: 170 x 265 x 40 mm, Approximate weight: 1.4 Kg
Format: Desktop, wall and rack mounting
Temperature: 0 to 40 ºC, Storage: -25ºC to 70ºC,

CARACTERíSTICA TéCNICA DEL SOFTWARE

IP protocol
ARP, ARP Proxy, MTU discovery, NAT/PAT, ICMP, 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, packet loss, jitter)
High availability: VRRP, TVRP/HSRP

Security
IPSec support in transport and tunnel mode. DMVPN.
Pre-shared authentication, RSA, Certificates, MDS, SHA-2
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, SPI
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, DHCPv6, 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, and SCCP terminals
Survival services: calls, hold, transfers

Management
CLI configuration and storage in a plain text file.
Cloud Net Manager(CNM) tool for professional services(HTTPS based)
RADIUS and TACACS+ AAA support

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

CARACTERíSTICA TéCNICAS ADICIONALES

LEDs and Power Supply
Power, Status, 10 * Ethernet, WLAN, USB, SFP, LTE
Power Supply range btw 100 to 240 VAC and 50 to 60Hz

Certifications and standards: RED Directive 2014/53/EU
Safety: EN 60950-1, EN 50385 and EN 62311. EMC: EN 301 489-1, EN
301 489-17
EN 301 489-52, EN 55032 +AC/2013, EN 55024. RADIO: EN 301 511, EN
301 908-1
EN 300 328, EN 301 893. ErP/ECO: EN 50564. RoHS: EN 50581

Console port
Type USB 2.0-B

Content of delivery
2x LTE/UMTS 2dBi quad-band omni-directional antennas
2x WLAN dual band 3dBi antennas
1x Installation poster, 1x Ethernet cable, 2m , 1xUSB cable

Scenarios

Founded in 1985, Teldat is a Spanish company whose mission is to provide companies with valuable solutions for cloud access, remote office communications, cyberse-curity and voice/data connectivity both in the office and in specific environments whether they are industrial, railway, vehicles or public services.

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