

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



## Product Highlights

- ▶ 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
- ▶ Console port for out-of-band management
- ▶ SDWAN compatible device

## Product Description

The Teldat RS123 family of routers has a powerful hardware architecture that allows symmetrical 300 Mbps bandwidth with enabled services. There are several router models aimed at communications services in remote offices that are fully integrated within the management system of suppliers and operators or can be controlled using Teldat Cloud NetManager which is the management tool for the Teldat product line.

The RS123 family has an optimized design in costs and with its different models can perfectly adapt to the requirements of a medium office. It includes all the functions required to a professional router, such as routing (RIP, OSPF, BGP, VRF, PolicyRouting, ...), security (ACLs, Firewall, IPSec, 802.1X, ...), quality of service (CBWFQ, PQ, profiling, ...), or management (CLI, SNMPv3, RADIUS, TACACS +, Syslog, Netflow, Mirroring, ...)

## 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).

## HARDWARE TECHNICAL FEATURES

### 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

### 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

### Teldat RS123 models

RS123: 4+1GE and 19" Rackmounting\*  
RS123w: 4+1GE + Wlan 802.11n, USB Port and 19" Rackmounting\*  
RS123w-4G: 4+1GE + Wlan 802.11n + LTE, USB Port and 19" Rackmounting\*

### WAN Combo GE & SFP

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

### 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

### 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 °C, Storage: -25°C to 70°C,

## SOFTWARE TECHNICAL FEATURES

### 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)

### 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)

### 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, IPv6oIPv4, IPv4oIPv6, GRE, 6rd, DHCPv6, 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.  
Cloud Net Manager(CNM) tool for professional services(HTTPS based)  
RADIUS and TACACS+ AAA support

### 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 (2)

Certificates: CSR, SCEP, X.509v3, PKIX, LDAP revocation  
Static and dynamic access lists(ACLs) and session-based Firewall, SPI  
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  
Support for terminals SIP, UA-NOE, H323, and SCCP terminals  
Survival services: calls, hold, transfers

### Management (2)

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

## ADDITIONAL TECHNICAL FEATURES

### LEDs and Power Supply

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

### Console port

Type USB 2.0-B

### 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

### 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

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