

Introduction

The Teldat RS1800 router is specially designed for cloud services thinking in all branch office communications. Depending on the model it includes a dual WAN combo interface(Ethernet or Fiber), a switch and one advanced LTE interface(Category 6). The Teldat RS1800 provides corporate data communications with a compact form factor, low power consumption and no fans for high MTBF.

The RS1800 can be installed in work areas with no noise or using the rack kit for communications cabinets. The Teldat RS1800 router family is the ultimate IP communications solution for small and medium offices.



Product Highlights

- ▶ Traditional router or SDWAN edge for branch office
- ▶ Flexible dual WAN connectivity: FTTH/Fiber
- ▶ Integrated switch for local devices
- ▶ Professional software features
- ▶ Models with Advanced LTE
- ▶ Smart design, no fan, silent
- ▶ Console port for out-of-band management

Product Description

The RS1800 edge is specially designed for cloud services thinking in enterprises with internet or private communications with many requirements. It scales from small to medium branch offices providing corporate data communications with a compact form factor, low power consumption and no fans for high MTBF. The RS1800 can be installed in work areas with no noise or using the rack kit for installations in communications cabinets.

The RS1800 edge is the complete solution for all data services through a single platform, including up to dual WAN ports and one advanced LTE interface. In addition it simplifies network deployment with Zero Touch Provisioning (ZTP) and also it is integrated in the SDWAN Teldat solution offering to customers a more agile and affordable user experience without sacrificing full functionality, security or reliability.

The Teldat RS1800 router family is the ultimate IP communications solution for branch offices.

Competitive Advantage

It accelerates cloud services migration	The RS1800 enables smooth transition from traditional communications in remote offices to a hybrid SD-WAN network, ensuring the client's investment.
Enterprise-class data connectivity	Up to 600Mbps aggregated(bidirectional) performance in routing scenarios, sophisticated QoS and professional VPN-multivendor capabilities
Reducing Total Cost of Ownership	Customer can replace multiple devices by a single and flexible unit like RS1800 for the overall communications reducing costs and simplifying operations.
Full wireless WAN services	The RS1800 is a corporate router that allows providers to offer WAN services without cables to their customers(LTE-A Category 6, up to 300Mbps DL/50Mbps UL).

HARDWARE TECHNICAL FEATURES

LAN connectivity

4x 10/100/1000 ethernet ports (LAN/WAN configurable)
RJ45 connector, selfnegotiation, automatic crossover
802.3i (10BaseT), 802.3u (100BaseT), 802.3ab (1000BaseT)

WWAN interface(Some models)

Built-in hardware module with Advanced LTE cat.6
LTE with fallback to 3G

2 external antennas with SMA connector

Dimensions and environmental specifications

L x W x H: 310 x 180 x 45 mm

Format: Desktop, wall and rack mounting (optional kit)

Temperature: 0 to 45 °C, Storage: -25°C to 70°C

2xWAN Combo GE & SFP

WAN 1(Default): 1x 10/100/1000 RJ45 LAN port/1x 1000 Mbps SFP slot
WAN 2(Optional license): same than WAN1
Optical interface: 1000 Mbps (1000BASE-X) LX/LH-SX-ZX

Teldat RS1800 models

RCRS18H01, RCRS18H01-LTE1(EU/AM), RCRS18H01-LTE2(APAC)

SOFTWARE TECHNICAL FEATURES

IP protocol

ARP, ARP Proxy, MTU discovery, NAT/PAT, ICMP, BFD
Static and dynamic routing: RIP, OSPF, BGP, policy based routing(PBR)
Virtual Router Forwarding (Multi-VRF)

Security (1)

IPSec support in transport and tunnel mode.
Pre-shared authentication, RSA, Certificates, MDS, SHA-1
Encrypted: DES (56 bits), 3DES (168 bits), AES (128, 192 and 256 bits)

IP services

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

IPv6

Dual Stack, IPv6oIPv4, IPv4oIPv6, GRE, 6rd, DHCP, 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
RADIUS and TACACS+ AAA support, Netflow, RMON, SNMPv1, v2c y v3
Cloud Net Manager tool(HTTPS based)

IP protocol (2)

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

Security (2)

MAC filtering. Static and dynamic access lists(ACLs)
Session-based Firewall
Deep packet inspection(L7 firewall)

Quality of Service(QoS)

Classification, marking, BW management, BW prioritization and limitation
Strict policies (PQ), Low latency (LLQ), by weight/type (WFQ, CBWFQ)
802.1p tagging. DSCP/ToS/Cos/proprietary mapping

Voice over IP

Protocols: SIP2.0 (UDP, TCP, TLS), H323, UA-NOE, SRTP, SCCP
Support for terminals SIP, UA-NOE, H323, SCCP
SIP trunking and IP-PBX features

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

Out of band management (Console port)

RJ45 female connector with proprietary pinouts (including adapter)
Type RS232, N81
Default speed 9600 bps, maximum speed 115200 bps

MTBF and maximum power consumption

MTBF: 392KHours
Max. Power: 14W(no LTE version)
Internal Dying Gasp Support

LEDs

Power supply, Status, WAN-1, WAN-2, LAN, WLAN-1, WLAN-2
Cell, 4xRSSI, 2xSIM, GPS & Cloud
2 additional LEDs for each Ethernet port (link, speed and activity)

Spain

Teldat S.A.
Parque Tecnológico de Madrid
Tres Cantos - 28760
Madrid (Spain)
Phone:+34 91 807 6565
info@teldat.com

Germany

bintec elmeg GmbH
Suedwestpark 94. 90449
Nuremberg (Germany)
Phone: +49 911 9673 0
info@bintec-elmeg.com