



Teldat M8Smart

The ultimate SDWAN edge for branch offices

Introduction

The Teldat M8Smart edge is specially designed for cloud services thinking in enterprises with high performance requirements. The M8Smart scales from medium to large branch offices providing corporate data communications with a compact form factor, low power consumption and no fans for high MTBF. The M8Smart can be installed in work areas with no noise or using the rack kit for communications cabinets.

With the M8Smart edge, Teldat anticipates the companies' real needs in communications

Product Highlights

- ▶ Traditional router or SDWAN edge for branch office
- ▶ Ready for high performance carrier services
- ▶ Specially designed for FTTH/Fiber connectivity
- ▶ LTE-A Category 12(600Mbps DL/150 Mbps UL)
- ▶ Easy working areas(WLAN)
- ▶ Professional software features

Interfaces

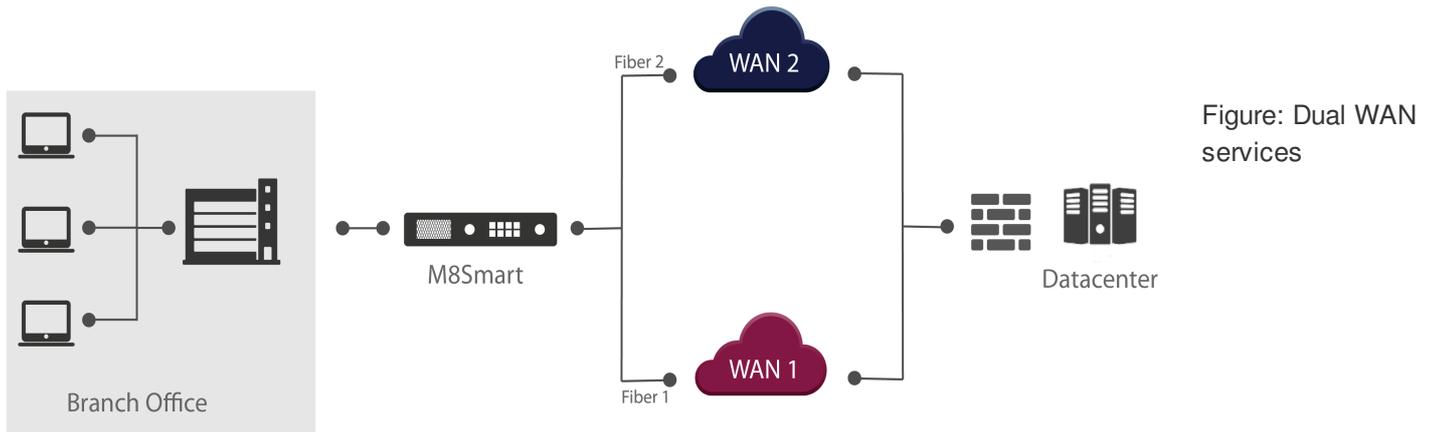
1x WAN combo port(Default)	2nd GE/SFP interface enabled by license
LAN connectivity	4-port Gigabit Ethernet switch
WLAN interface(Factory option)	Embedded AP dual radio 802.11n/ac
Mobile access (Factory option)	LTE-A up to 600Mbps DL
Console port	Yes

Teldat M8Smart

Competitive Advantage

It accelerates cloud services migration	The M8Smart enables smooth transition from traditional communications in remote offices to a hybrid SD-WAN network, ensuring the client's investment.
Enterprise-class data connectivity	Edge with high speed MBPS ratio in switching/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 M8Smart for the overall communications reducing costs and simplifying operations.
Full wireless WAN services	The M8Smart is the only corporate router that allows providers to offer a high-speed WAN service without cables to their customers(up to 600Mbps DL/150Mbps UL).

Scenarios



Key Features

High WAN flexibility with copper/fiber Built-in two electrical/optical Gigabit Ethernet interfaces to accommodate any connectivity scenario, whether single or redundant. Second WAN enabled under optional license.

Very good performance Up to 4 Gbps aggregated performance with the dual Combo's interfaces simultaneously

Hardware encryption Powerful CPU with hardware encryption available as an option

Onboard 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. GE, duplex, self-negotiable ports.

4G/4G+ connectivity LTE-Advanced Cat-6 embedded module delivers up to 300 Mbps download speed. It also will be available with LTE Cat 12 600Mbps DL(*Roadmap)

Easy working areas(WLAN) Customers can enjoy full mobility in the office because some M8Smart models include a dual radio 802.11n/ac Wi-Fi access point with 2x2 MIMO antenna technology

Advanced services The M8Smart application software includes all the advanced functions needed in corporate networks and carrier services, ready for the professional most demanding scenarios.

Deployment: Low complexity and operational costs M8Smart is the more agile and affordable edge model with easy network deployment(ZTP) and cloud services ready.

Dying-Gasp on WAN The M8Smart sends an alarm to the central management tool in case of any issue with the power-source avoiding false alarms badly diagnosed and optimizing their resolution.

No fan, no noise, ready for offices Destokp/Wall fanless solution without noise and perfect for LTE or WLAN services at the office

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)

WLAN interface

Dual radio 802.11abgn/ac wave 2
2x2 MUMIMO internal antennas
WEP, WPA, WPA2 security. WMM QoS, multi SSID

Teldat M8Smart models

RCSMH001: Teldat M8Smart: Chassis with 1xCombo GE/SFP, 4xGE
RCSMH002: Teldat M8Smart: Chassis with 1xCombo, 4xGE, WLAN
802.11n/ac
LTE models: RCSMH001-LTE1, RCSMH001-LTE2, RCSMH002-
LTE1, RCSMH002-LTE2

WAN 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

WWAN interface

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 (No Wifi) 310 x 197 x 45 mm (Wifi version)
Format: Desktop, wall and rack mounting
Temperature: 0 to 45 °C, Storage: -25°C to 70°C

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, MD5, 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(No radio/Radio models): 439/392KHours
Max. Power: 15W(No radio) & 26W(Radio models)

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)

FLEXIBLE COMMUNICATIONS SOLUTIONS THAT GROW WITH YOU.

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Teldat is a leading provider in Enterprise Communications equipment and Services for the top corporate to mid-sized and SME markets.

About TELDAT



ROUTERS | Wi-Fi | MANAGEMENT | TRANSPORT | SMART GRID | INDUSTRIAL | VoIP | CLOUD | SECURITY | NFV |

Teldat Group is a leading technology holding that designs, manufactures and distributes advanced Internetworking platforms for corporate environments, providing new and cutting-edge communication solutions without ever losing sight of its customers real requirements. Teldat's solutions development is based on proprietary technology, which is in the Group's DNA. This allows Teldat to be a leading provider in Enterprise Communications equipment and Services for the top corporate to midsized markets, as well as the SME and SoHo markets.

From a geographical viewpoint, Teldat Group has a presence in all continents, with its corporate headquarters located in Spain, and operational affiliates in Europe (Germany, Austria, Portugal, Italy and France) and in LATAM (Mexico and Brazil), as well as two business development offices in USA and China.

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