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
- ▶ The first corporate router with 5G interface
- ▶ Easy working areas(WLAN)
- ▶ Professional software features

Product Description

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The M8Smart family edge is the complete solution for all data services through a single platform, including duan WAN ports, LTE high speed and wireless local connectivity. 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.

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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, up to 1000 Mbps IMIX 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 with 5G interface(roadmap) that allows providers to offer a high-speed WAN service without cables to their customers.

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)

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

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

WWAN interface
Built-in hardware module with Advanced LTE cat.6/5G
LTE with fallback to 3G
2/4 external antennas with SMA connector

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

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 ºC, Storage: -25ºC to 70ºC

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)

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 (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)

Security (2)
MAC filtering. Static and dynamic access lists(ACLs)
Session-based Firewall
Deep packet inspection(L7 firewall)

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

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/propietary mapping

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

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

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) and API restconf support

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

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)

RAM/Flash memory: up to 1GB
MTBF and maximum power consumption
MTBF(No radio/Radio models): 439/392KHours
Max. Power: 15W(No radio) & 26W(Radio models)