

Teldat M10-Smart

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Introduction

The Teldat M10-Smart edge router is specially designed for cloud services thinking in enterprises with high-performance requirements. The M10-Smart 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 M10-Smart can be installed in work areas with no noise and being unnoticed in the work environment.

With this one-box solution, the M10Smart is the easiest way to forget about everything except business.

Highlight

- Advanced router for branch offices
- High performance in WAN services up to 1Gbps
- Specially designed for FTTH/Fiber connectivity
- The first corporate router with Wi-Fi 6 interface
- 4G o 5G interface for connection anywhere
- Ready for corporate carrier services
- Professional software features

Interfaces

Dual WAN ports	2x Combo WAN GE Copper/SFP ports
LAN connectivity	4x Gigabit Ethernet ports
Wi-fi 6 (Internal antennas)	Dual radio access point 2,4/5GHz
Wireless WAN interface	4G (Cat.6) or 5G internal modem
Console port	Complete access for troubleshooting



Competitive Advantages

It accelerates office services migration	The M10-Smart enables a smooth transition from traditional slow communications in remote offices to a fast SD-WAN network, ensuring the client's investment.
Enterprise-class data connectivity	The M10-Smart is a high-speed router, up to 1Gbps IMIX ratio 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 M10-Smart for the overall communications reducing costs and simplifying operations.
Full wireless WAN services	The M10-Smart is a new corporate router with Wi-fi 6 interface that allows providers to offer high-speed LAN services without requiring cables from customers

Key Features

- **High WAN flexibility with copper/fiber** Built-in two WAN Combo GE/SFP ports giving electrical/optical Gigabit Ethernet interfaces to accommodate any connectivity scenario, whether single or redundant.
- **Hardware encryption** Powerful CPU with hardware encryption, available as an option, offering an IMIX aggregated encrypted performance greater than 1Gbps.
- **Embedded dual radio access point Wi-fi 6** Dual-radio access point 802.11ba/n/ac/ax, 5GHz and 2.4GHz. It supports 20/40MHz at 2.4GHz channel width and supports 20/40/80MHz at 5GHz.
- **Advanced services** An internal 4G category 6 modem in the M10-Smart (please see models) can offer a reliable connection for critical applications even requiring high bandwidth (Up to 300Mbps download)
- **Easy deployment: Low complexity and operational costs** The M10-Smart is the more agile and affordable edge model with easy network deployment (ZTP) and cloud services ready.
- **Very good performance** Packet processing acceleration offers up to 2 Gbps aggregated performance/WAN for high-speed scenarios.
- **Onboard 4x Gigabit Ethernet ports** LAN ports are ideal for small offices because it eliminates the need for an additional device, thus reducing costs and points of failure. They are 10/100/1000, duplex, self-negotiable ports.
- **Wireless WAN network access for critical applications** The M10-Smart application software includes all the advanced functions needed in corporate networks and carrier services, ready for the professional most demanding scenarios.
- **No fan, no noise, ready for offices** Desktop/Wall fanless solution without noise that can be unnoticed at the office

HARDWARE TECHNICAL FEATURE

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 access point Wi-fi 6, 2,4 & 5GHz
IEEE802.11 a/b/g/n/ac/ax
Support 20/40/80/(80+80) MHz channel bandwidths

Teldat M10-Smart no Wi-fi models

RCTM10SH001, RCTM10SH002, RCTM10SH003, RCTM10SH007
Teldat M10-Smart Wi-fi models
RCTM10SH004, RCTM10SH005, RCTM10SH006, RCTM10SH008

WAN connectivity: Dual WAN ports

WAN 1: 1x Combo GE Copper/SFP
WAN 2: 1xCombo GE Copper/SFP
Optical interface: 1000 Mbps (1000BASE-X) LX/LH-SX-ZX

WWAN interface

Internal modem 4G category 6 (LTE-A), EU or AM bands.
Or internal modem 5G Worldwide
Support LTE-A carrier aggregation

Dimensions and environmental specifications

L x W x H: 232,8 x 183,2 x 45.2 mm (exclude LTE antennas)
Format: Desktop and wall mounting
Temperature: 0 to 40 °C, Storage: -10°C to 70°C

SOFTWARE TECHNICAL FEATURE

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, IP6oIPv4, 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 and v3
Cloud Net Manager tool(HTTPS based) and API restconf support

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

Wi-fi services

WEP, WPA, WPA2 and WPA3(Roadmap) security. WMM QoS
Multi-SSID

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 FEATURE

Out of band management (Console port)

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

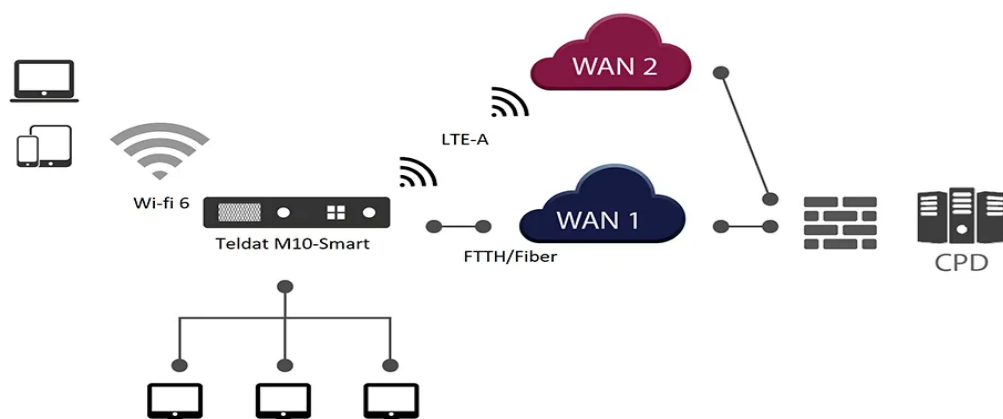
Other relevant information

RAM memory:2GB
Flash memory: 8GB
External PSU 100-240 V AC, 50-60 Hz

LEDs

Front: Cloud, CELL, WLAN-1, WLAN-2, SYS
Back: 2x per LAN port, 2x per WAN port (link, speed and activity)

Scenarios



Teldat Group