

Teldat M2

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Introduction

The Teldat M2 edge router is specially designed for cloud services thinking in enterprises with high-performance requirements. The M2 scales from medium to large branch offices providing corporate data communications with a compact form factor and low power consumption. It includes a switch, a Wi-fi 6 access point and meets the main connectivity requirements for a branch office. Models with 4G modem are available for critical or high-availability scenarios. With the M2, Teldat anticipates the companies' real needs in communications.

Destacar

- 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
- Ready for corporate carrier services
- Professional software features

Interfaces

Several WAN ports	1x Combo, 1x 2,5GbE, 1x xDSL*
LAN connectivity	4-port Gigabit Ethernet switch
Wi-fi 6 (Internal antennas)*	Dual radio access point 2,4/5GHz
4G interface*	Category 6, high speed download
Console port	Complete access for troubleshooting



Competitive Advantage

It accelerates office services migration	The Teldat M2 enables a smooth transition from traditional slow communications in remote offices to a fast network, ensuring the client's investment.
Enterprise-class data connectivity	Edge router 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	Customers can replace multiple devices by a single and flexible unit like Teldat M2 for the overall communications reducing costs and simplifying operations.
Full WLAN services	The Teldat M2 is the 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 ports, 1x2,5GbE and 1xCombo GbE/SFP, giving electrical/optical Gigabit Ethernet interfaces to accommodate any connectivity scenario, whether single or redundant in critical services.
- **Hardware encryption** Powerful CPU with hardware encryption, available as an option, offering an aggregated encrypted performance greater than 1Gbps.
- **Embedded dual radio access point Wi-fi 6** Dual-radio access point 802.11ba/n/ac/ax, 2.4GHz and 5GHz. It supports 20/40MHz at 2.4GHz channel width and supports 20/40/80MHz at 5GHz.
- **Very good performance** Packet processing acceleration offers up to 2 Gbps aggregated IMIX performance for high-speed scenarios.
- **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.
- **Advanced services** The M2 application software includes all the advanced functions needed in corporate networks and carrier services, ready for the professional most demanding scenarios.

CARACTERÍSTICA TÉCNICA DEL HARDWARE

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)

Dimensions and environmental specifications

L x W x H: 252,90 x 140 x 44 mm
Format: Desktop, wall and rack mounting
Temperature: 0 to 45 °C, Storage: -10°C to 70°C

Teldat M2 main models(Other models are available)

RCTM2H001: M2, 1xCombo, 1x2,5GbE, 4xGE switch
RCTM2H002: M2, 1xCombo, 1x2,5GbE, 4xGE switch, Wifi-6 Mimo 2x2
RCTM2H003: M2, 1xCombo, 1x2,5GbE, 4xGE switch + WWAN(EU) dual SIM

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

WAN flexibility

WAN 1: 1xCombo GE Copper/SFP
WAN 2: 1x 2,5GbE RJ45 port
WAN 3(Depending on model): 1x4G modem Category 6

Teldat M2 main models(Other models are available)

RCTM2H004: M2, 1xCombo, 1x2,5GbE, 4xGE switch + WWAN(AM) dual SIM
RCTM2H007: M2, 1xCombo, 1x2,5GbE, 4xGE switch + VDSL + WWAN(EU)

CARACTERÍSTICA TÉCNICA DEL SOFTWARE

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 services

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

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

Security (2)

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

Wi-fi services

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

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)

IPv6

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

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

Quality of Service(QoS)

Classification, marking, BW management, BW prioritization and limitation
Strict policies (PQ), Low latency (LLQ), by weight/type (WFQ, CBWFQ)

SDWAN networks

Overlay over hybrid networks with App-aware routing, QoS and Visibility
Central SD-WAN flow control including Zero Touch Provisioning

CARACTERÍSTICA TÉCNICAS ADICIONALES

Out of band management (Console port)

RJ45 female connector with proprietary pinouts (including adapter)
Type RS232, N81

LEDs

Power supply, WLAN status,
2x per LAN port, 2x per WAN port (link, speed and activity)

Other relevant information

RAM/Flash memory: up to 2GB/4GB
External PSU 100-240 V AC, 50-60 Hz



Scenarios

Ficha técnica Teldat M2

Teldat Group



Founded in 1985, Teldat is a Spanish company whose mission is to provide companies with valuable solutions for cloud access, remote office communications, cyberse-curity and voice/data connectivity both in the office and in specific environments whether they are industrial, railway, vehicles or public services.

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