

Introduction

Just as compact as it is powerful and scalable, the Teldat-M1 router provides small and medium offices with the level of connectivity previously reserved for large offices. Though small, the device is capable of delivering up to 600 Mbps services. No fan is required so you can install it in work areas because it does not produce any noise.

Scalable thanks to a slot with a variety of cards, the device combines a built-in public Ethernet connection, a LAN Ethernet switch, a Wi-Fi access point and a 3G/4G/4G+ connection. The software includes a wide range of functions tailored to professional environments.



Product Highlights

- ▶ Up to 600 Mbps symmetrical services
- ▶ One cards slot(SFP, VDSL, Switch, E1,Serial,etc.)
- ▶ Optional LTE integration + USB port
- ▶ Licensable, built-in Wi-Fi access point
- ▶ Advanced software, IPSec, ToIP, CLI
- ▶ No fan, silent
- ▶ Traditional or SDWAN integrated router

Product Description

The Teldat-M1 has a powerful hardware architecture that enables speeds of up to 600 Mbps symmetrical services.

Highly versatile and scalable. In addition to the Ethernet connection, it has a slot that allows you to adapt to a wide range of scenarios (fiber + Ethernet, fiber + Ethernet + VDSL, Ethernet + serial), up to 12-ports LAN switch, and an optional 3G/4G connection.

It connects to the private network via a 4-port Gigabit switch and Wi-Fi access point.

Cost-optimized and scalable: the WAN-Ethernet interface and Wi-Fi access point feature are optional and enabled remotely.

It provides all the functions required of a professional router, including routing (RIP, OSPF, BGP, VRF, Policy Routing, etc.), security (ACLs, Firewall, IPSec, 802.1x, etc.), quality of service (CBWFQ, PQ, etc.), and management (CLI, SNMPv3, RADIUS, TACACS+, Syslog, Netflow, Mirroring, etc.).

Competitive Advantage

Powerful and scalable platform	Up to 600Mbps services and a slot to adapt to different environments (Fiber, ADSL/VDSL, E1/T1, Serial, Ethernet PoE switch).
Extensive connectivity	Up to 12x 10/100/1000 Ethernet ports with advanced VLAN functions, 802.1p/q/x and 802.11n Wi-Fi access points. PoE 802.3af is available as an option.
Professional software	Teldat's command-line configurable operating system, backed by hundreds of thousands of units in the most demanding environments, and operator services.
Designed for work areas	Suitable for office installation: no fans means no noise. In-depth status information provided by an 11 LED panel.

HARDWARE TECHNICAL FEATURES

Expansion slot for plug-in module card

WAN cards: Fiber, ADSL/VDSL, Fiber + ADSL/VDSL, E1/T1, Serial

LAN cards: 8xGE with optional PoE, 1xGE PoE-in

WAN+LAN cards: 1xSFP + 4xGE

Wi-Fi interface (optional, licensable)

Selectable 802.11abgn access point mode (2.4/5 GHz)

2x2 MIMO external antennas (SMA connector)

WEP, WPA, WPA2 security. WMM QoS, multi SSID

Dimensions and weight

L x W x H: 245 x 210 x 45 mm

Approximate weight: 1.4 Kg

Format: Desktop and additional rack mount bracket

Ethernet interfaces

4-port switch plus one optional WAN port (RJ45 connector)

802.3i (10BaseT), 802.3u (100BaseT), 802.3ab (1000BaseT)

Duplex support, IEEE 802.3u, VLAN and 802.1x speed self-negotiation

WWAN interface (optional)

Built-in hardware module with LTE or LTE-A technology

2 external antennas with SMA connector

Dual SIM for improved reliability

Environmental specifications and Power Supply

Temperature: 0 to 45 °C, Relative humidity: 5 to 95%

Atmospheric pressure: 700 to 1060 mbars

Power supply range btw 100 to 240 VAC and 50 to 60Hz

SOFTWARE TECHNICAL FEATURES

IP protocol

ARP, ARP Proxy, MTU discovery, NAT/PAT, ECMP, BFD

RIPv1/2, OSPFv3, BGPv4, Load balancing, PBR-Policy Based static/dynamic

Routing

Virtual Router Forwarding (Multi-VRF)

Security

IPSec support in transport and tunnel mode. DMVPN

Pre-shared authentication, RSA, Certificates, MDS, SHA-2

Encrypted: DES (56 bits), 3DES (168 bits), AES (128, 192 and 256 bits)

IP services

DHCP, DNS, FTP, SFTP, SSH server v1/2, Telnet server and client

NTP, LDAP, Syslog, SCP client. TFTP server

DHCP, dynDNS relay

IPv6

Dual Stack, IPv6oIPv4, IPv4oIPv6, GRE, 6rd, DHCPv6, 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

Cloud Net Manager tool(HTTPS based)

RADIUS and TACACS+ AAA support

IP protocol (2)

Multicast: IGMP (v1,v2, v3), PIM-SM, PIM-SSM, MSDP, MLD, MLDv2

IPSLA service probes (delay, packet loss, jitter)

High availability: VRRP, TVRP (HSRP compatible)

Security (2)

Certificates: CSR, SCEP, X.509v3, PKIX, LDAP revocation

Static and dynamic access lists(ACLs) and session-based Firewall, SPI

DoS/DDoS detection

Quality of Service QoS

IP Precedence, DiffServ and COS labeling for BW management

BW prioritization and limitation

Up to 16 queues per interface. PQ,LLQ,WFQ,CBWFQ,WRED

VoIP

Protocols: SIP (UDP, TCP, TLS), H323, UA-NOE, SRTP, SCCP

Support for terminals SIP, UA-NOE, H323, and SCCP terminals

Survival services: calls, hold, transfers

Management (2)

Netflow, RMON V5 and V9, SNMPv1, v2c y v3, Syslog support

Manageable via SMS, Performance monitoring

Wireshark-compatible remote packet capture

ADDITIONAL TECHNICAL FEATURES

LEDs

Power supply, slot, USB, status, Wi-Fi, switch, Eth-WAN, mobile coverage x4

Console port

Type RS232, N81

Default speed 9600 bps, maximum speed 115200 bps

RJ45 connector with proprietary pinouts (including adapter)

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