

Introduction

Teldat-M1 is a compact, powerful and scalable router that provides small and medium-sized offices with a connection that was previously reserved for large offices.

It is small and needs no fans so it is not noisy but powerful with symmetrical 100 to 200 Mbps services and can be installed in work areas.

It is scalable due to its slot for a wide variety of cards and has an integrated Ethernet network connection, LAN Ethernet switch, Wi-Fi Access Point and 3G/4G connection.

The software includes a wide range of functions for professional environments.

Product Highlights

- ▶ Up to 200 Mbps symmetrical services
- ▶ One slot (cards SFP, VDSL, G.SHDSL, E1, Serial....)
- ▶ Optional 3G or 3G/4G integration + USB port
- ▶ Licensable integrated Wi-Fi access point
- ▶ Advanced software, IPSec, ToIP, CLI
- ▶ No fan, silent
- ▶ Console port for out of band management

Interfaces

Expansion slot.	Cards SFP, VDSL, G.SHDSL, E1, Serial....
Gigabit Ethernet WAN	Optional (remote activation)
Mobile access (3G or 3G/4G)	Optional (factory option)
4-port Gigabit Ethernet switch	Yes
Wi-Fi 802.11n Access Point (2.4-5Ghz)	Optional (remote activation)
USB port for 3G/4G modems	Optional (remote activation)
Console port	Yes
Reset button	Yes

Teldat-M1

Competitive Advange

Powerful and scalable platform	Up to 200 Mbps with active services and a slot for adjustment to different environments (Fibre, ADSL/VDSL, G.SHDSL, E1/T1, Serial, Ethernet PoE switch).
Extended connection	Four Ethernet ports 10/100/1000 with advanced functions VLAN, 802.1P/Q/X and Wi-Fi 802.11n Access Point.
Professional software	Teldat operating system configurable with a command line, backed up by hundreds of thousands of units in the most demanding and operator service scenarios.
Designed for work areas	Suitable for installation in offices as its lack of fans guarantees total absence of noise In-depth information on its status through its 11 LED panel.

Scenarios

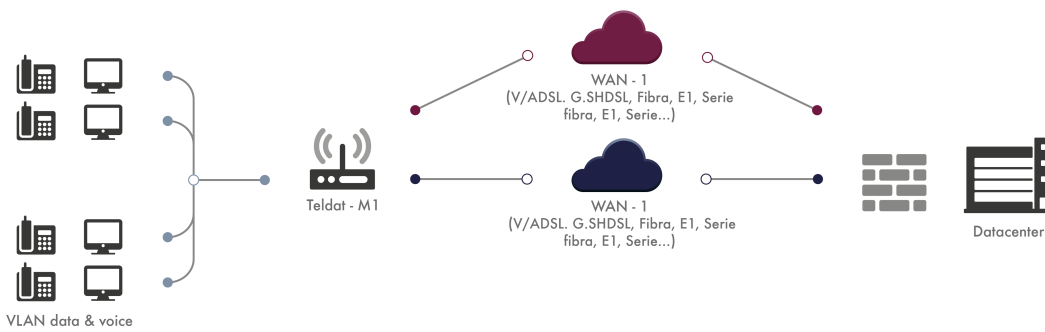


Figure: Cable connection, several access points

Key Features

Up to 200 Mbps Appropriate for use in scenarios of up to 200 Mbps IMIX with symmetrical services enabled by powerful hardware architecture that includes hardware encryption.

Ethernet access and 1 slot for a wide range of cards Adjustable to any connection scenario through its slot and as a redundant fixed access solution due to the integrated Gigabit Ethernet interface.

3G or 3G/4G connection 4G-LTE wireless access is the perfect backup solution through using a different infrastructure to fixed access points. It can also be used at the same time as fixed connections for balancing.

4xGE switch The built-in switch is ideal for small offices as it avoids the use of an external switch and therefore reduces costs and failure points. GE, duplex and autonegotiable ports.

Wi-Fi Access Point Teldat-M1 may optionally support an 802.11n Wi-Fi Access Point at 2.4/5 GHz MIMO 2x2 and an External Access Point Controller. With SSID support for guests and a Captive Portal.

Security: Firewall, IPSec, ... Corporate communications require corporate security. Teldat-M1 includes state-of-the-art security free of charge: ACLs, Firewall, 802.1X, IPSec (optional hardware encryption), etc.

VoIP server Complete SIP server with basic SBC (Session Border Controller) included by default. It can be used to isolate/conceal the internal voice network to improve voice security and for survival purposes.

Advanced services Teldat M-1 includes software with advanced functions required in corporate networks and operator services, prepared for highly demanding scenarios like MPLS and managed services.

No fan. Silent In small offices there is not enough space and sometimes routers have to be installed in work areas. Teldat-M1 is especially designed for such environments as its noise level is zero.

Console port Managed Operator and Integrator services require out of band management to prevent interference with the client's network and the console port is the most common method used.

HARDWARE TECHNICAL FEATURES

Expansion slot.

WAN cards: Fibre, ADSL/VDSL, Fibre+ADSL/VDSL, G.SHDSL, E1/T1, Serial

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

WAN+LAN cards: 1xSFP + 4xGE with PoE option

Wi-Fi interface (optional, licensable)

Access Point mode 802.11abgn selectable 2.4/5 GHz

MIMO 2x2 with external antennas (SMA connector)

WEP, WPA, WPA2 security. WMM QoS service quality Multi SSID

Dimensions and Weight

Length x Width x Height: 245 x 210 x 45 mm

Approximate weight: 1.4 Kg

Format: On a table and additional support for installation on a rack

Ethernet interfaces

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

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

Duplex support, speed link auto-negotiation IEEE 802.3u, VLAN y 802.1X

WWAN interface (optional)

Built-in hardware module with HSPA+or LTE/HSPA + technology

2 external antennas with SMA connector

Additional support for additional USB modules (license optional)

Environmental specifications

Temperature: 0 to 45 °C

Relative humidity: 5 to 95%

Atmospheric pressure: 700 to 1060 mbars

SOFTWARE TECHNICAL FEATURES

IP protocol

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

RIP, OSPF, BGP, Policy based static and dynamic routing

Virtual Router Forwarding (Multi-VRF)

Security

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

DHCP, DNS, FTP, SFTP, SSH, 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

Assignment of user and group licenses

RADIUS and TACACS+ AAA support

IP protocol (2)

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

IPSLA service probes (delay, package loss, jitter)

High availability: VRRP, TVRP (HSRP compatible)

Security (2)

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

Static and dynamic access lists and session-based Firewall

Detection of DoS and DDoS attacks

Service quality

Classification, marking, BW management, BW prioritisation and limitation

Up to 32 types 16 queues per interface

Strict policies (PQ), Low latency (LLQ), according weight/type (WFQ, CBWFQ)

VoIP

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

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

Surviving services: Calls, hold, transfers

Management (2)

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

Manageable via SMS

Remote Wireshark compatible traffic collection

ADDITIONAL TECHNICAL FEATURES

LEDs

Type RS232, N81

Default speed 9600 bps, maximum speed 115200 bps

Power supply, Slot, USB, Status, WiFi, Switch, Eth-WAN, Mobile coverage (x4)

RJ45 connector with proprietary pinouts (including adapter)

2 additional LEDs for each Ethernet port (link, speed and activity)

FLEXIBLE COMMUNICATIONS SOLUTIONS THAT GROW WITH YOU.

Teldat-M1 corporate router

Compact modular router for 100 Mbps services, with switch, 3G/4G and a slot



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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