Teldat-M1 corporate router

Compact modular router for up to 600Mbps services,
with switch, 3G/4G and a slot

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 devide 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 devide 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 enviroments.

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

Interfaces

Interfaces	Teldat-M1
Expansion slot for plug-in module card	Cards:SFP, VDSL, G.SHDSL, E1,Serial,etc.
Gigabit Ethernet WAN	Optional (remotely activated)
Mobile access (3G/4G/4G+)	Optional (factory-installed)
4-port Gigabit Ethernet switch	Yes(Upgradeable to 12x)
802.11n Wi-Fi access point (2.4-5 GHz)	Optional (remotely activated)
USB port for 3G/4G modems	Optional (remotely activated)
Console port	Yes
Reset button	Yes

Competitive Advantage

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Powerful and scalable platform	Up to 600Mbps services and a slot to adapt to different enviroments (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 enviroments, 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.

Scenarios
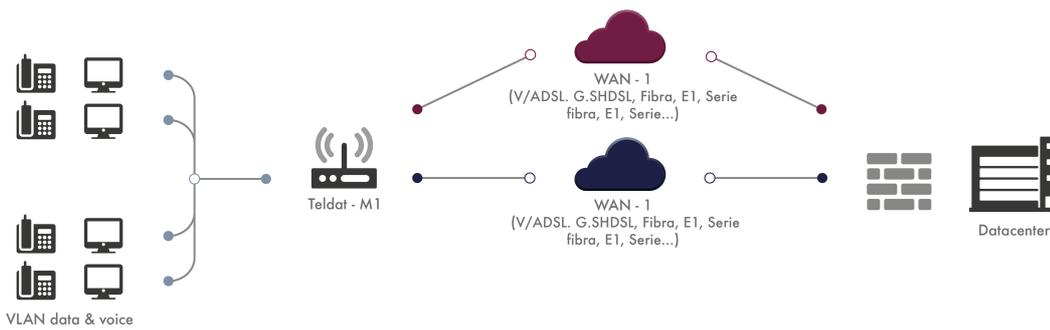
Figure: Wired connectivity, multiple access points

Key Features

Up to 1200 Mbps aggregated Reliable in scenarios of up to 600 Mbps symmetrical IMIX services(1200Mbps aggregated bw) thanks to its powerful hardware architecture and performance license.

Ethernet access plus 1 slot with a variety of cards The built-in card slot means it can adapat to any connectivity scenario while the built-in Gigabit Ethernet interface provides an alternative (redundant) fixed access solution(CFM support)

3G/4G/4G+ connectivity 4G-LTE, cat.4 or 6, wireless access is the perfect backup medium as it uses different infrastructure to fixed connections. You can utilize 4G-LTE and fixed connections simultaneously for load-balancing purposes.

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 and self-negotiable ports.

Wi-Fi access point With the Teldat-M1, you also have the option of an 802.11n Wi-Fi access point (2.4/5 GHz) with 2x2 MIMO antenna technology and external access point controller. Inlcudes multi-SSID support.

Security: Firewall, IPSec, etc. Corporate communications require dedicated HW encryption* and high security. The Teldat-M1 provides free of charge state-of-the-art security: ACLs, Firewall, 802.1x, IPSec, etc. (*Optional license)

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 The Teldat M-1 software includes all the advanced functions needed in corporate networks and operator services, ready for the most demanding scenarios like MPLS and managed services.

No fan. Silent Lack of space in small offices often means that routers have to be placed in the work area. The Teldat-M1 is specially designed for such enviroments. Since the router does not need a fan, it does not produce any noise.

Console port Operator/integrator managed services require out-of-band management to prevent them from interfering with customers networks. The console port is the most common method.

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

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

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

WWAN interface (optional)
Built-in hardware module with LTE or LTE-A technology
2 external antennas with SMA connector
Dual SIM for improved reliability

Dimensions and weight
L x W x H: 245 x 210 x 45 mm
Approximate weight: 1.4 Kg
Format: Desktop and additional tack mount bracket

Environmental specifications and Power Supply
Temperature: 0 to 45 ºC, 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)

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
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)

Security (2)
Certificates: CSR, SCEP, X.509v3, PKIX, LDAP revocation
Static and dynamic access lists(ACLs) and session-based Firewall, SPI
DoS/DDoS detection

IP services
DHCP, DNS, FTP, SFTP, SSH server v1/2, Telnet server and client
NTP, LDAP, Syslog, SCP client. TFTP server
DHCP, dynDNS relay

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

IPv6
Dual Stack, IP6oIPv4, IPv4oIPv6, GRE, 6rd, DHCPv6, ICMPv6, SLAAC
Static and dynamic routing RIPng, OSPFv3, MP-BGP
Multicast: MLD, MLDv2, Listener, Querier

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
CLI configuration and storage in a plain text file
Cloud Net Manager tool(HTTPS based)
RADIUS and TACACS+ AAA support

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)

FLEXIBLE
COMMUNICATIONS SOLUTIONS
THAT GROW WITH YOU.

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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 desings, 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.