

Introduction

By combining two of the most popular fixed access methods (Ethernet and ADSL2+/VDSL2) and 3G/4G connectivity (an extremely effective backup mechanism), the Teldat-V router is the ultimate IP communications solution for small and medium offices.

The Teldat-V is both cost-efficient and scalable as it allows you to turn off the Ethernet and DSL connections (included by default) when they are not needed, and later enable them if, say, you want to migrate your DSL package to Ethernet with DSL as the backup. It has a 4-port Gigabit Ethernet switch and optional Wi-Fi to connect to the private network.

Product Highlights

- ▶ Ethernet and/or ADSL/VDSL access, both licensable
- ▶ Optional 3G or 3G/4G integration + USB port
- ▶ Licensable, built-in Wi-Fi access point
- ▶ 4-port Gigabit Ethernet switch
- ▶ Advanced software, IPSec, ToIP, CLI
- ▶ No fan, silent
- ▶ Console port for out-of-band management

Interfaces

Teldat-V

VDSL2/ADSL2+ Annex-A	Optional (remotely activated)
Gigabit Ethernet WAN	Optional (remotely activated)
Mobile access (3G or 3G/4G)	Optional (factory-installed)
4-port Gigabit Ethernet switch	Yes
802.11n Wi-Fi access point (2.4-5Ghz)	Optional (remotely activated)
USB port for 3G/4G modems	Optional (remote activation)
Console port	Yes
Reset button	Yes

Competitive Advantage

Scalable platform - fixed/mobile access	It includes fixed Ethernet and ASDFSL/VDSL connectivity. Both are optional in order to avoid paying for unused features while maintaining scalability.
Extensive private network connectivity	Four 10/100/1000 Ethernet ports with advanced VLAN functions, 802.1p/q/x and 802.11n Wi-Fi access point.
Professional software	Teldat's command-line configurable operating system, backed up by hundreds of thousands of units in the most demanding environments.
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

Key Features

ADSL/VDSL connection Annex A ADSL, ADSL2, ADSL2+, VDSL2 compatibility. This interface can be initially disabled to reduce costs when not required. It can be enabled later, even remotely.

Gigabit Ethernet WAN connection Auto detectable 10/100/1000 speed. This interface can be initially disabled to reduce costs when it is not required. It can be enabled later, even remotely.

3G or 3G/4G connection 4G-LTE 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.

4 x GE 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-V, 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. Includes SSID support for guests and a captive portal.

Security: Firewall, IPSec, etc. Corporate communications require corporate security. The Teldat-V provides free of charge state-of-the-art security: ACLs, Firewall, 802.1x, IPSec with 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 The Teldat-V includes an IP switching engine that has 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 means that routers have to be placed in the work area. The Teldat-V is specially designed for such environments. 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 customer network. The console port is the most common method.

HARDWARE TECHNICAL FEATURES

ADSL/VDSL interface (optional, licensable)

ADSL/ADSL2+/VDSL2 compatible on analog lines (RJ11 connector)
ADSL: Ansi, g.dmt, g.dmt.bis, g.dmt.bis-plus, g.lite. Annexes A, M and L
VDSL: G.993.2. Profiles: 8a, 8b, 8c, 8d, 12a, 12b, 17a

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: 242 x 179 x 48 mm
Approximate weight: 0.8 Kg
Format: Desktop and wall

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 HSPA+ or LTE/HSPA + technology
2 external antennas with SMA connector
Additional support for additional USB modules (optional license)

Environmental specifications

Temperature: 0 to 40 °C
Relative humidity: 5 to 90%
Atmospheric pressure: 700 to 1060 mbar

SOFTWARE TECHNICAL FEATURES

ADSL/VDSL compatibility and functions

Multiplexed VC and LLC with IP, PPPoE, PPPoA, Bridge, MLPPP support
UBR, UBR+, VBR-nrt, VBR-rt, CBR with traffic shaping
Up to 31 PVCs and OAM support

IP protocol (2)

Multicast: IGMP (v1, v2, v3), PIM-SM, 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 and session-based Firewall
DoS/DDoS detection

Quality of Service

Classification, marking, BW management, BW prioritization and limitation
Up to 32 types 16 queues per interface
Strict policies (PQ), Low latency (LLQ), by weight/type (WFQ, CBWFQ)

Management

CLI configuration and storage in a plain text file
User and group license assignment
RADIUS and TACACS+ AAA support

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, TFTP client
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 (2)

Netflow v5 and v9, RMON, SNMP v1, v2c and v3, Syslog support
Manageable via SMS
Wireshark-compatible remote packet capture

ADDITIONAL TECHNICAL FEATURES

Console interface

RJ45 connector with proprietary pinouts (including adapter)
Type RS232, N81
Default speed 9600 bps, maximum speed 115200 bps

ToIP support

Protocols: SIP (UDP, TCP, TLS), H323, UA-NOE, SRTP, SCCP
SIP, UA-NOE, H323 and SCCP terminal support
Survival services: calls, hold, transfers

LEDs

Power supply, warning, USB, Wi-Fi, DSL, Eth WAN, mobile, Ethernet activity
2 additional LEDs for each Ethernet port (link, speed and activity)

FLEXIBLE COMMUNICATIONS SOLUTIONS THAT GROW WITH YOU.

Teldat-V corporate router

Advanced router for fixed ADSL/VDSL and/or Ethernet 3G and/or 4G mobile access



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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