

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

Product Description

Versatility, cost-effectiveness and scalability define the Teldat-V. With this router, you only enable the interfaces that you need and you can remotely enable interfaces later quickly and easily.

The interfaces that can be enabled are the fixed connectivity interfaces, WAN-Ethernet (with a Gigabit-speed interface) and ADSL2+/VDSL2, and the Wi-Fi access point feature (802.11n 2x2 MIMO). The device also offers the option of a 3G or 3G/4G connection. You can use any access interface as the primary or backup interface, or you can use them simultaneously for load balancing. To complement this, the device has a 4-port Gigabit switch to the private network.

The device 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

Scalable platform - fixed/mobile access	It includes fixed Ethernet and ADSL2+/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.

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)

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