



# Teldat-iM8 corporate router

Compact modular router for high performance scenarios up to 1000Mbps

## Introduction

The Teldat-iM8 is a powerful and flexible router thanks to a optimized hardware architecture capable of delivering symmetrical 1000 Mbps services.

Its small size means that no fan is required, the customer can place it in work areas because it does not produce any noise.

The device is scalable thanks to an expansion slot with a wide variety of cards, a built-in Ethernet/Fiber connection, a LAN Gigabit Ethernet switch, a Wi-Fi access point and a 3G/4G/4G+ connection.

## Product Highlights

- ▶ Up to 1000 Mbps symmetrical services
- ▶ Traditional or SDWAN integrated router
- ▶ One card slot(SFP, VDSL, G.SHDSL, E1, Serial, etc)
- ▶ Optional 3G/4G/4G+ integration + USB port
- ▶ Licensable, built-in Wi-Fi access point
- ▶ Advanced software, IPSec, ToIP, CLI
- ▶ No fan, silent

## Interfaces

## Teldat-iM8

Expansion slot.	Cards: SFP, VDSL, Switch, E1, Serial.
Electrical/optical port	Optional (remotely activated)
Mobile access (3G/4G/4G+)	Optional (factory-installed)
8-port Gigabit Ethernet switch	Yes
Wi-Fi 802.11n access point (2.4-5 GHz)	Optional (remotely activated)
USB port for 3G/4G modems	Yes
Console port	Yes
Reset button	Yes

## Competitive Advantage

Powerful and scalable platform	Up to 1000Mbps (no additional HW needed), GE/SFP WAN connection and a slot to cover Fiber, xDSL, E1/T1, Serial, Ethernet PoE switch options.
SDWAN router	Teldat-iM8 enables smooth transition from traditional communications in remote offices to a hybrid SD-WAN network.
Extensive connectivity	Eight 10/100/1000 Ethernet ports with advanced VLAN functions, 802.1p/q/x and Wi-Fi 802.11n access point. Optional PoE on 4 ports(Max. 12xPoE ports).
Designed for work areas	Suitable for office installation: the absence of fans means there is no noise. In-depth status information provided by a 14 LED panel.

# Scenarios

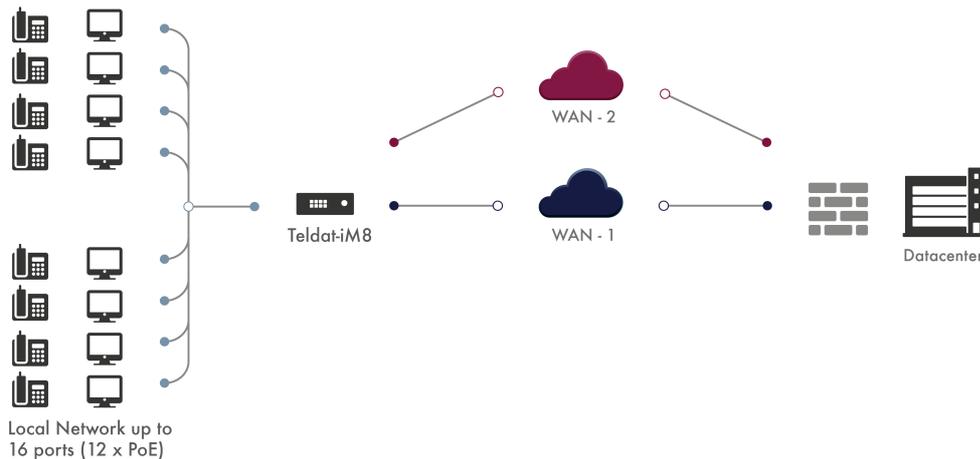


Figure: Fixed and mobile redundant connectivity

## Key Features

**Up to 1000 Mbps** Reliable in scenarios of up to 1 Gbps symmetrical (IMIX) with services thanks to its powerful hardware architecture with hardware encryption.

**High VPN performance** Powerful CPU with hardware encryption available as an option.

**Electrical/optical connection and expansion slot** Built-in electrical/optical Gigabit Ethernet interface and a slot to accommodate any connectivity scenario, whether single or redundant.

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

**Onboard 8xGE 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, self-negotiable ports with optional PoE.

**Wi-Fi access point** The Teldat iM8 can also be an 802.11n Wi-Fi access point (2.4/5 GHz) with 2x2 MIMO antenna technology and/or access point controller. With SSID support for guests and a captive portal.

**Security: Firewall, IPSec, etc.** Corporate communications require corporate security. The Teldat-iM8 provides free of charge state-of-the-art security: ACLs, Firewall(L3-L7), 802.1x, IPSec (optional hardware encryption), etc.

**Advanced services** The Teldat-iM8 software includes all the advanced functions needed in corporate networks and carrier 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-iM8 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 networks. The console port is the most common method.

## HARDWARE TECHNICAL FEATURES

### Expansion slot.

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

LAN cards: 8xGE with optional PoE

WAN + LAN card: 4 x GE Switch Extension/WAN Port configurable

### Local Ethernet and Wi-Fi connection (licensable, optional)

8-port Ethernet switch 10/100/1000. Optional PoE on 4 ports(RJ45 connector)

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

2x2 MIMO with external antennas (SMA connector)

### Dimensions and Weight

L x W x H: 275 x 310 x 44 mm

Approximate weight: 2.5 Kg

Format: Desktop and additional rack mount bracket

### Optical/electrical Gigabit interface

SFP optical interface and RJ45 electrical interface (mutually exclusive)

Optical interface: 1000 Mbps(1000BaseX) LX/LH-SX-ZX

Electrical interface: 10/100/1000 Mbps

### WWAN interface (optional)

Built-in hardware module with 3G/4G/4G+ technology

2 external antennas with SMA connector

Support for additional USB modules

### Environmental specifications

Temperature: 0 to 40 °C, Relative humidity: 5 to 90%

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-1

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, IP6oIPv4, IPv4oIPv6, GRE, 6rd, DHCP, ICMPv6, SLAAC

Static and dynamic routing RIPv6, 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, Netflow, RMON, SNMPv1, v2c v3

### IP protocol (2)

Multicast: IGMP (v1,v2, v3), PIM-SM, PIM-SSM, 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(ACLs) and session-based Firewall

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, SCCP

Survival services: calls, hold, transfers

### SDWAN networks

Overlay over hybrid networks with App-aware routing, QoS and Visibility

Central SD-WAN flow control including Zero Touch Provisioning Applications Service Chaining

## ADDITIONAL TECHNICAL FEATURES

### Console interface

RJ45 connector with proprietary pinouts (including adapter)

Type RS232, N81

Default speed 9600 bps, maximum speed 115200 bps

### MTBF and maximum power consumption

MTBF: 584 KHours

Max. Power: 35W without external USB

### LEDs

Power supply, slot, USB, status, Wi-Fi-1, Wi-Fi2, switch

GE-SFP, GE-Eth, 3 x mobile, HD/SD, Apps

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

# 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 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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