

# 4G/LTE periperal device for corporate routers

Compatible 4G/LTE enabler for routers with no built-in wireless support

## Introduction

Mobile connections are an ideal backup infrastructure for fixed connections. Unfortunately, however, corporate routers are not usually equipped to handle them, or are installed in poorly accessible locations and hence coverage is poor. Teldat-4Ge is the solution to this problem because it connects the corporate router to mobile networks easily, economically and non-intrusively.

Teldat-4Ge integrates mobile connectivity and can be installed wherever there is adequate network coverage, using Ethernet to connect to the corporate router.



## Product Highlights

- ▶ Non-intrusive and compatible with other routers
- ▶ Easy and quick installation
- ▶ You can put the device anywhere in the office
- ▶ You only need an Ethernet connection
- ▶ PoE support
- ▶ Standards-based
- ▶ No management required

## Product Description

Teldat-4Ge is the fastest, most effective and versatile solution for quality 3G/4G mobile connectivity.

Mobile networks are unquestionably the ideal backup connectivity solution where wired networks are unavailable. However, corporate routers are not usually prepared to handle a wireless connection or are housed in locations where mobile network coverage is lousy. Teldat-4Ge provides the solution to these problems. The device's compact design makes it ideal for placing inside the office for optimum coverage and it connects to the corporate router via Ethernet.

The existing corporate router directly controls the mobile connection and integrates it with security, QoS and network management policies (Teldat-4Ge can operate as a standalone device).

With automatic provisioning and Power over Ethernet support, Teldat-4Ge can be efficiently and securely installed in just a few minutes, without requiring qualified personnel.

## Competitive Advantage

Quick and easy installation	No configuration required, just connect to Ethernet and it's ready to go. If PoE is enabled, you only need the Ethernet cable; if not, you'll need to plug it.
No management required	The device uses auto provisioning to download the configuration (similar to an IP phone) from the office router.
The corporate router maintains control	The router controls the mobile connection, applying the same connection, security and QoS policies used for the fixed connection.
Discreet, unobtrusive design	To achieve maximum coverage, the device is usually placed somewhere on a wall inside the office where it can go unnoticed.

## HARDWARE TECHNICAL FEATURES

### Gigabit connection to the local network

10/100/1000 Gigabit Ethernet interface to the local network  
RJ45 connector

### Dimensions and weight

Length x Width x Height: 160 x 145 x 45 mm  
Approximate weight: 0,263 Kg  
Format: Desktop, wall and DIN rail

### Two external antennas

Dual MIMO antenna for LTE reception  
SMA connector

### Environmental specifications

Temperature: 0 to 45 °C  
Relative humidity: 5 to 90%  
Atmospheric pressure: 700 to 1060 mbars

## SOFTWARE TECHNICAL FEATURES

### Auto-provisioning

Parameters received via DHCP  
The office router is normally the DHCP server  
Install and ready to go

### 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-2  
Encryption: 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 Relay, dynDNS  
Phone terminal management using with SIP

### IPv6

Dual Stack, IPv6oIPv4, IPv4oIPv6, GRE, 6rd, DHCPv6, ICMPv6, SLAAC  
Static and dynamic routing RIPng, OSPFv3, MP-BGP  
Multicast: MLD, MLDv2, Listener, Querier

### Communication with the router

Connection to the router via VLAN  
Use of existing Ethernet infrastructure  
Manageable from the router

### 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  
DoS and 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

Netflow, RMON V5 and V9, SNMPv1, v2c y v3, Syslog support  
Manageable via SMS  
Wireshark-compatible remote traffic capture

## ADDITIONAL TECHNICAL FEATURES

### LEDs

Power supply, LAN and mobile network connection

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