

# 5G peripheral device for corporate routers

Compatible 5G enabler for routers with no built-in wireless support

## Introduction

5G Mobile connections are an ideal backup infrastructure for fixed WAN services. Unfortunately, however, corporate routers are not usually equipped to handle them, or are installed in poorly accessible locations and hence coverage is poor. Teldat-5Ge is the solution to this problem because it connects the corporate router to mobile networks easily, economically and non-intrusively.

Teldat-5Ge integrates 5G mobile connectivity and can be installed wherever there is adequate network coverage, using Ethernet high speed port to connect to the corporate router.



## Product Highlights

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

## Product Description

Teldat-5Ge is the fastest, most effective and versatile solution for the new 5G 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-5Ge provides the solution to these problems. The compact design of the device 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-5Ge can operate as a standalone device).

With automatic provisioning and Power over Ethernet support, Teldat-5Ge 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.
Designed for 5G service providers	The 5Ge, unlike other devices, is capable of meeting all the EN-DC band combinations and DSS requirements that 5G-NSA networks usually need.

## HARDWARE TECHNICAL FEATURES

### Gigabit connection to the local network

1x 2,5GbE LAN port and 1x 2,5GbE WAN port(Optional)  
RJ45 connector

### Dimensions and weight

Length x Width x Height: 197 x 197 x 55 mm  
Approximate weight: TBD  
Format: Desktop and wall

### 5G: Sub 6Ghz NSA and SA modes. Mimo 4x4/2x2

NSA TDD: Max 2.5Gbps(DL)/ 650Mbps(UL).SA TDD: Max 2.1Gbps(DL)/ 450Mbps (UL)

5G FR1 bands: n1, n2, n3, n5, n7, n8, n12, n20, n25, n28, n38, n40, n41, n48, n66, n71, n77, n78, n79

### Four external antennas

SMA connector  
Dual SIM support

### 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(1)\*

ARP, ARP Proxy, MTU discovery, NAT, ECMP, BFD  
RIP, OSPF, BGP, policy-based static and dynamic routing  
Virtual Router Forwarding (Multi-VRF)

### Security(1)\*

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  
(\* ) Features available in router mode only.

## ADDITIONAL TECHNICAL FEATURES

### LEDs

PWR: Power/Error, SIM: Active SIM, Cell: Cellular status  
Ethernet 1: Link / Traffic LAN1, Ethernet 2: Link / Traffic LAN2

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