Teldat-4Ge

4G/LTE periperal device for corporate routers

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.

Destacar

- **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**

Interfaces

1 x Gigabit Ethernet	If using PoE, only cable needed
2 x outdoor antenna connectors	Indoor antennas included

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.

Key Features

- **Integrates mobile access into existing architecture** The router managing the fixed connections also controls the mobile connections and therefore applies the same security and QoS policies.

- **Automatic provisioning** Teldat-4Ge does not store the configuration, rather it receives it via DHCP during start-up. This means that you do not need to do anything to the device before physically installing it.

- **Installation using a single cable** With Power over Ethernet support (a PoE injector is available for non-PoE switches) it can be powered simply using a single Ethernet cable making installation quick and easy.

- **Specifically designed to be placed inside the office** The device goes unnoticed in work/transit areas thanks to its compact size and elegant design.

- **Standards-based** A VLAN is used to set up the data connection between the router and Teldat-4Ge, creating what is, for all intents and purposes, a virtual interface on the router.

- **No management required** The device can be managed from the existing router, so you do not need to reserve an address for managing the device or register it on the management systems.

- **Tabletop to wall installation** Designed to be mounted on a wall to get the best signal strength.

- **Standalone router option** In "Router mode" it provides Ethernet devices with mobile connectivity for mobile offices or device backup.

CARACTERíSTICA TéCNICA DEL HARDWARE

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

Two external antennas
Dual MIMO antenna for LTE reception
SMA 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

Environmental specifications
Temperature: 0 to 45 ºC
Relative humidity: 5 to 90%
Atmospheric pressure: 700 to 1060 mbars

CARACTERíSTICA TéCNICA DEL SOFTWARE

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

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

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

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
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)

Security (2)
Certificates: CSR, SCEP, X.509v3, PKIX, LDAP revocation
Static and dynamic access lists and session-based Firewall
DoS and DDoS detection

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

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)

IPv6
Dual Stack, IP6oIPv4, IPv4oIPv6, GRE, 6rd, DHCPv6, ICMPv6, SLAAC
Static and dynamic routing RIPng, OSPFv3, MP-BGP
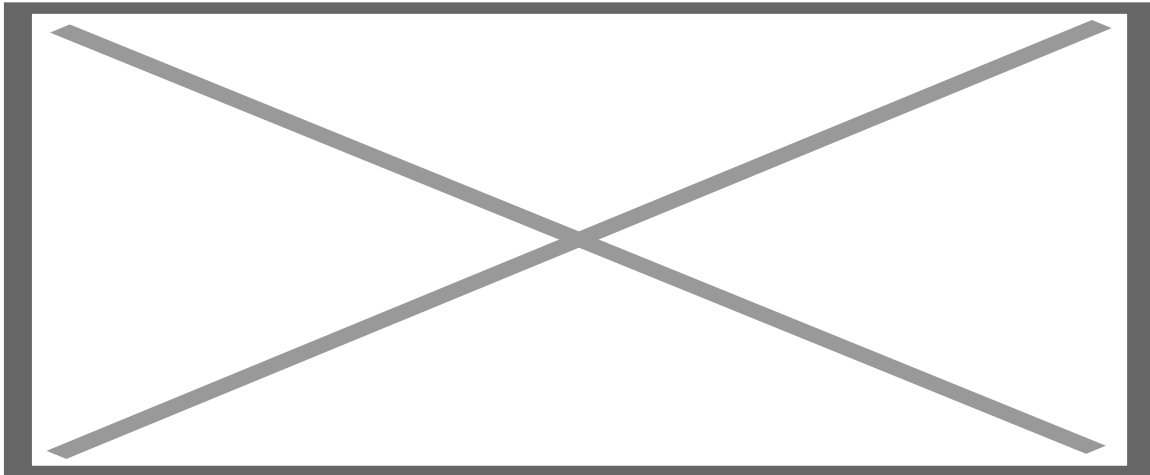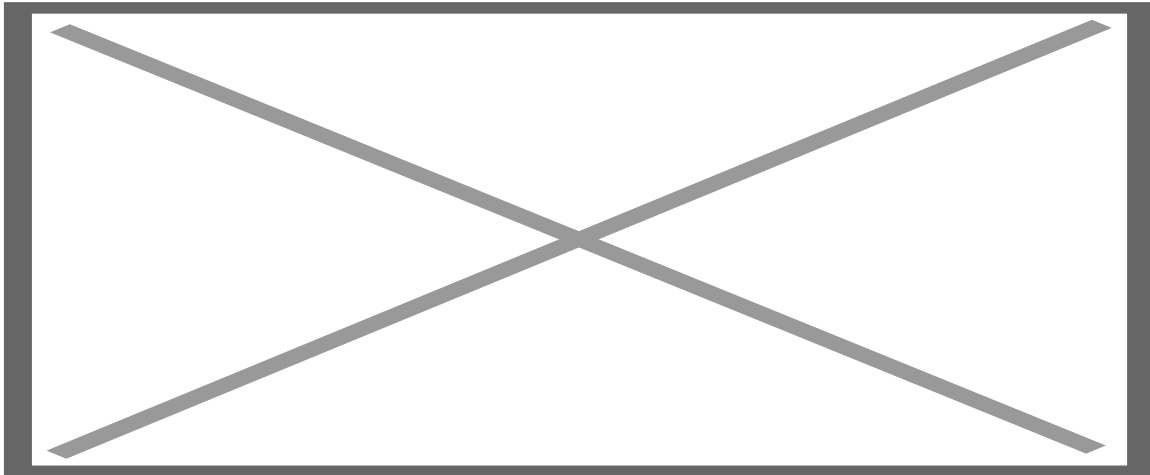Multicast: MLD, MLDv2, Listener, Querier

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

CARACTERíSTICA TéCNICAS ADICIONALES

LEDs
Power supply, LAN and mobile network connection

Scenarios