Teldat

4GePlus

4G periperal device for corporate routers

Introduction

4G 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. The 4GePlus is the solution to this problem because it connects the corporate router to mobile networks easily, economically, and non-intrusively.

The 4GePlus integrates 4G mobile connectivity and can be installed wherever there is adequate network coverage, using Ethernet high-speed port 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**
- **SDWAN ready in router mode**

Interfaces

1 x 4G Cat.6 modem	Up to 300Mbps download
1 x 2,5Gb Ethernet LAN (Antenna Mode)	If using PoE, only LAN cable is needed
1 x 2,5Gb Ethernet WAN (Router Mode)	Enabled with an optional license
2x external antenna connectors	2x 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 (like an IP phone) from the office router.
The corporate router maintains control	The CPE 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

- **It Integrates 4G access into existing infrastructure.** The router that manages the fixed connections also controls the mobile connections and therefore enforces the same security and QoS policies.

- **Automatic provisioning.** The 4GePlus 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.** The setup process implies standard features. A VLAN is used to set up the data connection between the router and the Teldat 4GePlus, 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" the 4GePlus is a standalone solution that provides copper and 4G high-speed WAN connectivity to remote offices.

CARACTERíSTICA TéCNICA DEL HARDWARE

Muti-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: 196.33 x 196.33 x 54.93 mm.
Approximate weight: 0.4 kg
Format: Desktop, wall.

LTE Cat.6: 300Mbps/50Mbps
EU: LTE 3GPP Release 11 FDD. B1/B3/B5/B7/B8/B20/B28/B32 TDD.
B38/B40/B41
AM: FDD: B2/B4/B5/B7/B12/B13/B25/B26/B29/B30/B66 TDD. B41

Two external antennas
Dual MIMO antenna for LTE reception
SMA connector. Dual SIM support (2FF)

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

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*

IPv6
Dual Stack, IP6oIPv4, 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*
*Features available in router mode.

CARACTERíSTICA TéCNICAS ADICIONALES
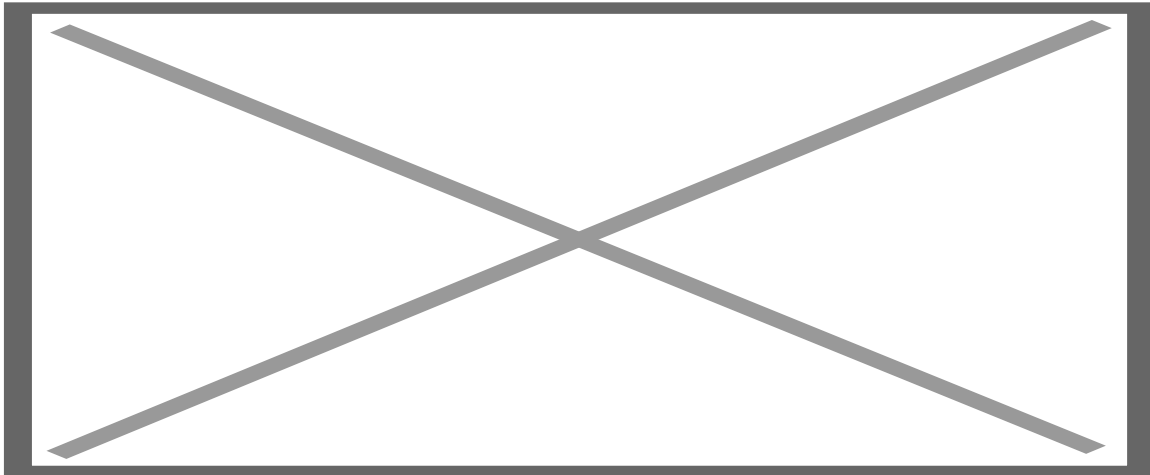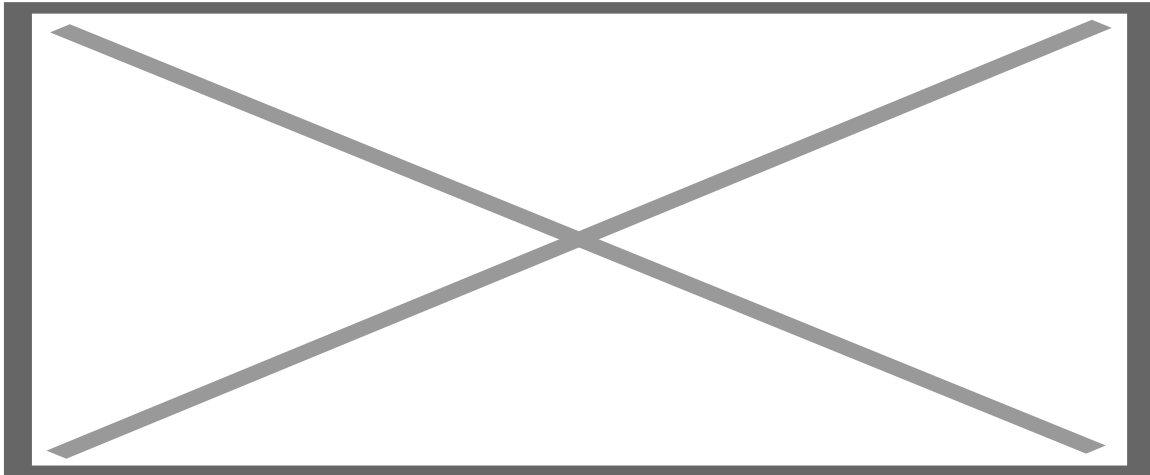
LEDs
Top Panel: - Power - LAN-1 - LAN-2 - W - SIM

Directives
RED Directive 2014/53/EU,RoHS Directive 2011/65,ErP/ECO Direct.
2009/125/EC

Memory
RAM 1 Gbyte (DDR4)
Flash 32 Mbytes

Scenarios