TYTX CPE625A
4G/LTE CPE

Overview

TYTX CPE625A is an LTE wireless gateway CPE that implements the conversion between 4G/LTE data and wired Ethernet data. It supports data backhaul function, and can be used independently. The CPE625A is suited for indoors deploy.

TYTX CPE625A supports the LTE R11 standards, and CAT6 UE category, which provides the stable data, voice, Wi-Fi, maintenance and management services to home and SOHO users.

Highlights

Novel Appearance

TYTX CPE625A has concise appearance. The LED indicators and ports are distributed on the both sides, which are convenient for operating and checking. It applies the vertical rectangular design, that reduce the occupied area, and convenient for using and carrying.

Versatility

Besides the basic LTE and WLAN functions, TYTX CPE625A also support voice, SMS, firewall, VPN, QoS and etc. It satisfies the multi-directional requirements of users. Multiple management and maintenance methods (TR069/Telnet/APP) are convenient for checking and operating. The software online update tool will also constantly provide the upgrade of these functions.

LAN/WAN Transform

The first ethernet port of TYTX CPE625A supports the LAN/WAN transform, user can configure the mode manually. When the fixed broadband is enabled, the device can work as a Wi-Fi router through LAN/WAN port access. It protects user investment.

Dual Connection*

TYTX CPE625A supports the dual connection between LTE and Ethernet uplink. These two kinds of uplink connections could be the backup of each other. When the default uplink connection is broke, the connection can switch to the backup line. This function safeguards the data transfer of users, which also improve the stability of data service.

Key Features

Support Global Mainstream Frequency Bands
- LTE complies with 3GPP release 11 standards
- Series of configure models support different areas
- CPE625A-04: EU/ME/AF/AUS/BRA

Dual Frequency Band WLAN
- Simultaneous dual band Wi-Fi
- Support 8 MSSID
- Support WMM
- High power and wide coverage area

High Performance Antennas
- External 2*2 LTE antennas
- Multi-frequency coverage
- Good directionality
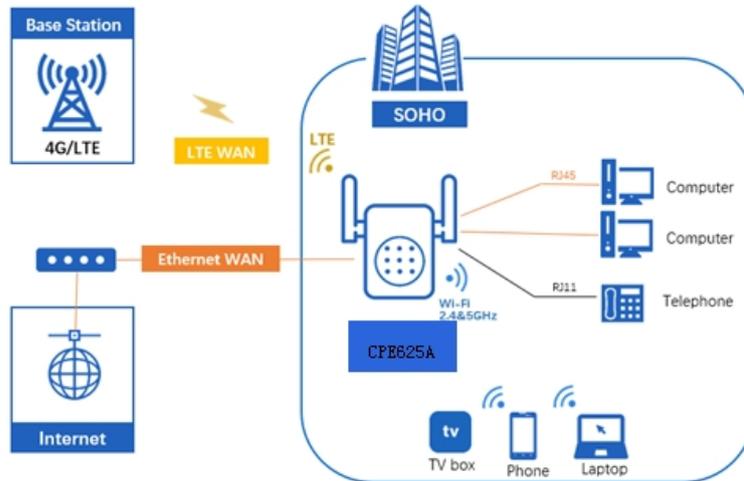- Internal dual band Wi-Fi antennas

Security assurance
- Stable firewall
- Support multiple filtering rules
- Multiple security protocols
- Support backup of configuration files
- Online update and maintenance

Ideal Use Case
- Home
- SOHO
- Shop, Store

Features & Specification

Supported Frequency Bands
- Supported standards: (3GPP Release 11) LTE, DC-HSPA, HSPA+, HSPA, HSUPA, WCDMA, etc.
- Support global mainstream frequency bands: (depends on configured sub-models)
  LTE FDD: B1/B3/B5/B7/B8/B20/B28/B32
  LTE TDD: B38/B40/B41
  2×CA: B1+B1/B5/B8/B20/B28;
        B3+B3/B5/B7/B8/B20/B28;
        B7+B5/B7/B8/B20/B28;
        B20+B32; B38+B38;
        B40+B40; B41+B41
  WCDMA: B2/B4/B5
- CAT6:
  DL data rate 300Mbits/s
  UL data rate 50Mbits/s

LTE Antennas
- External 2*2 LTE antennas
- Gain: ≥3dBi
- VSWR: ＜3.5
- Efficiency: ≥-4 dB@700 MHz~960 MHz
        ≥-3.5dB@1710 MHz~2690 MHz

Wi-Fi Antennas
- Internal 2.4GHz/5GHz dual bands antennas
- 2.4GHz gain: ≥3dBi
- 2.4GHz VSWR: ＜2
- 2.4GHz efficiency: ≥-3 dB
- 5GHz gain: ≥3dBi
- 5GHz VSWR: ＜2
- 5GHz efficiency: ≥-3 dB

Network Protocols and Features
- Connection modes: PPPoE/DHCP/Static
- IPv4, IPv6, IPv4/IPv6
- DHCP v4/v6 server
- Static (v4/v6) routing and RIP-1/2
- NAT/ALG/DMZ/virtual server
- ARP/ICMP/DNS proxy
- Dynamic Domain Name System (DDNS)
- IGMP snooping and IGMP proxy
- MLD snooping and MLD proxy
- SNTP
- VLAN

Operation Modes
- Bridge or Routed
- Mixed mode

Firewall
- Built-in NAT firewall
- Firewall level setting
- Defense of DoS、ARP attacks/Port scan
- DHCP/ARP/IGMP message suppression
- MAC/URL filtering
- Inflow/outflow filtering of IP/Protocol/Port

Quality of Service Control
- 802.11e WMM
- Classification of service flow
- DSCP/802.1 p
- SP and WRR mode
- 8 priority queues
- Port/VLAN/ IP rate limitation

Wireless LAN
- Support 802.11 a/b/g/n/ac standards
- 2.4 & 5 GHz frequency range
- 20/40/80MHz bandwidth
- Channel adaption
- MSSID (8)
- Wireless power saving: adaptable power control
- WPS: PBC/PIN modes
- WEP/WPA-PSK/WPA2-PSK security
- AP/SSID Isolation
- SSID and WAN binding
- MSSID online list

VoIP
- SIP/IMS SIP protocol
- Call forwarding
- Number hiding
- Conference
- Call waiting and call holding
- Digital map

SMS
- Short massage sending and receiving
- Support extra-long massage
- 100 massage storage

Management
- WebUI local management
- TR069 remote management
- Universal Plug and Play (UPnP)
- Online and local software update/rollback
- Configuration data upload and download
- Syslog monitoring
- Local and remote diagnostic
- System alarm

Hardware Specification
Physical Interface
- WAN/LAN ports-RJ45   2*GE
- Phone ports-RJ11   1*FXS
- SIM slot
- Power port
- USB2.0

Button
- Wi-Fi Button
- WPS Button
- Reset Button

LED indicators
- Phone indicator
- WPS indicator
- 2.4GHz Wi-Fi indicator
- 5GHz Wi-Fi indicator
- LAN indicator
- Internet indicator
- System indicator
- LTE indicator
- Power indicator

Physical specification (without antennas)
- Dimension: L112mm*H172mm*W45mm
- Weight: 257.9g

Temperature Requirements
- Operating: -10°C~55°C
- Storage: -40°C~70°C
- Humidity: 0%~95%