# GLOBAL TELECOM LTE Indoor CPE Series

## GTC117V CAT6 LTE Indoor CPE

### CONVENIENT WIRELESS BROADBAND ACCESS

GTC117V is a cost effective and high performance CAT6 LTE indoor Wi-Fi & SIP VoIP CPE product specially designed to enable quick and easy LTE fixed data service deployment for residential and SOHO customers. It provides high speed LAN, Wi-Fi and VoIP integrated services to end users who need both bandwidth and multi-media data service in residential homes or enterprises.

The device has 1 LAN ports, 1 RJ11 analog phone port, high performance 4x4 MIMO and CA capabilities, 802.11b/g/n/ac dual band Wi-Fi, advanced routing and firewall software for security. It provides an effective all-in-one solution to SOHO or residential customers. It can deliver up to 230 Mbps max data throughput which can be very competitive to wired broadband access service.

### RELIABLE PERFORMANCE

GTC117V is an advanced multiport indoor Wi-Fi & VoIP CPE based on the standard implementation of LTE Release 10 specifications. With built-in high gain LTE antenna, it enables a longer reception range from the base station. This yields more efficient use of the network with a larger cell reach, guaranteed carrier class service, and customer service probability.

To meet the different operating requirements in various countries and regions, GTC117V can be supplied with optional UPS power adapter to provide continuous usage during power outage.

### EASY USAGE & MANAGEMENT

GTC117V is a user-friendly LTE CPE and very easy to configure and setup. Subscribers can just connect the device to their computer or home switch/router and the device is ready to offer an experience of surfing over Internet. The LEDs on the GTC117V have also been designed for user convenience, and offer a clear sign of what the device is doing. The compact design is well suited for enterprise and residential users.

GTC117V offers rich management features which facilitate the task of service provider. It supports local management access, Telnet, WEB, and centralized remote OTA configuration, upgrades management and device monitoring via standard TR-069 ACS system.

### TECHNICAL FEATURES

GTC117V is fully compliant to the LTE specification. It offers standard support for advanced features such as Carrier Aggregation, MIMO and AMC to maximize the system capacity and bandwidth throughput. The use of OFDM modulation enhances performance in non-line-of-sight conditions to ensure immunity to interference and multi-path conflicts typical of deployments in urban areas. Sophisticated QoS capabilities ensure true end-to-end QoS and support for high quality data services.

GTC117V has enhanced router function and VPN clients support to enable greater service selection and reliability. The easy-to-read signal strength and data activity indicators in the front panel make it intuitive for users to check the status of the

- Cost effective & compact design with built-in high gain LTE and Wi-Fi antenna
- Compliant to 3GPP LTE R10 specifications
- Advanced 4x4 MIMO and CA support with Category 7 throughput
- Dual GE LAN ports, VoIP Line and 802.11b/g/n dual band MIMO Wi-Fi support
- Router, bridge and by-pass networking, IPv4 &v6 and Multiple PDN support
- VPN & full L2/L3 GRE Tunneling clients support
- FTP, HTTP,HTTPS and TR-069 management support

**FEATURE HIGHLIGHTS**

# GTC117V CAT6 LTE Indoor CPE Specifications

## Physical

| | |
|---|---|
| Dimensions | 150mm x 120mm x 40mm |
| Weight | < 600g |
| Power Consumption | < 18W |
| Power Supply | 12V/1.5A DC Adapter |
| | UPS battery backup optional |

## Environmental

| | |
|---|---|
| Operating Temperature | -15°C–55°C |
| Storage Temperature | -30°C–85°C |
| Humidity | 90% max non-condensing |

## LTE Radio Interface

| | |
|---|---|
| Radio Access | 3GPP LTE Release 10 |
| Operation Mode | TDD, 2T4R, 4x4 MIMO, CA |
| | Contiguous & Non-Contiguous |
| Frequency Band | B41 |
| Channel Bandwidth | 5/10/15/20/20+20 MHz |
| Modulations | DL: QPSK, QAM16, QAM64 |
| | UL: QPSK, QAM16, |
| | UL QAM64 (optional) |
| QoS Support | Non-GBR and GBR |
| Output Power | 23 ± 1 dBm |
| Antenna Gain | 2-5 dBi (B3, B7, B20, B40, B41) |
| | 5-6 dBi (B42, B43, B48) |

## Wi-Fi Interface

| | |
|---|---|
| Radio Access | 802.11b/g/n |
| MIMO | 2x2, 300Mbps |
| Output Power | 16 ± 1dBm |
| Antenna | 4-5 dBi built-in antenna |
| Connected Users | 32 |
| Security | 64/128 bit WEP, WPA/WPA2 |

## User Interfaces

| | |
|---|---|
| Data Interface: | 1 RJ45 GE ETH Port |
| Line Interface: | 1 RJ11 LINE Port |
| SIM Support | Yes |

## Networking Configuration

Router and L3 Bridge Operation Support
Built-in DHCP Server for LAN Devices
IPv4, and IPv6 DS-Lite Support for LTE
Multiple PDN Interface Support

## Data Networking Features

VPN Pass-through support (PPTP, L2TP & IPsec)
Built-in L2TP & GRE Tunneling Client Support
DNS Proxy Support

Firewall & Access Control
DMZ and Virtual Server Support
IP and Port Forwarding Support
Local and Remote Management Restriction
Application Firewall Support
NTP Service Support

## VoIP Processing

| | |
|---|---|
| Compression | G.711   G.721   G.723 |
| | G.726   G.729   G.722 |
| Comfort Noise | Comfort Noise Generation & Control |
| Echo Cancellation | G.165/168-2000 |
| Silence Handling | Silence Detection/Suppression |
| Fax Support | T.30 and T.38 |
| Delay/Jitter/Loss | Jitter and Packet Loss Compensation |
| DTMF Relay | In band DTMF, RFC2833, SIP signal |
| Call Duration | 24+ hours Uninterrupted Call |

## Voice Services

Basic Voices

Local, Domestic & International Calling
Flexible Dial Plan Configuration Support
Tone Customization for Different Countries

Complementary Services

Caller ID, Caller ID suppression, Call Screening, Speed dial, Call Tracing, Hotline, Unconditional call forwarding, Call Forwarding No Answer, Call Forwarding on Busy, Call Waiting, Call Back, Call Blocking, No Disturbance, Alarm, Network and Local 3-way Call, Data Call, and Etc.

## Device Management

CLI, Telnet, HTTP and HTTPS Management Interfaces
Standard Based TR-069 Management
FTP and HTTP OTA Firmware Upgrade
USIM and PLMN Locking Support
Device Factory Default Setting

## Industry Standards

ITU

| | |
|---|---|
| 3GPP | E-UTLA Release 10 |

IEEE

| | |
|---|---|
| IEEE 802.3 | 10Base Ethernet |
| IEEE 802.3u | Fast Ethernet |
| IEEE 802.11 | Wireless LAN (802.11b/g/n/ac) |

IETF

| | |
|---|---|
| IP voice | SIP v2.0 |

OTHERS

| | |
|---|---|
| Safety | FCC or CE |