



5G NSA & SA



AX 3000Mbps



# A812M

## 5G CPE

### Key Features

#### Key Benefits

- 5G NR
- WiFi6

#### High Rate Wi-Fi 6

- AX 3000Mbps
- MIMO

#### High Performance

- NSA: 4.67Gbps (DL)/825Mbps (UL)
- SA: 4.67Gbps (DL)/1.25Gbps (UL)
- LTE: 1.6Gbps (DL)/211Mbps (UL)
- WCDMA: 42.4Mbps (DL)/5.76Mbps (UL)

#### Security assurance

- Stable firewall
- Multiple filtering rules
- Multiple security protocols
- Support backup of configuration files
- Online upgrade

#### Ideal Use Scenario

- Home
- Enterprise
- Shop, Store

### Overview

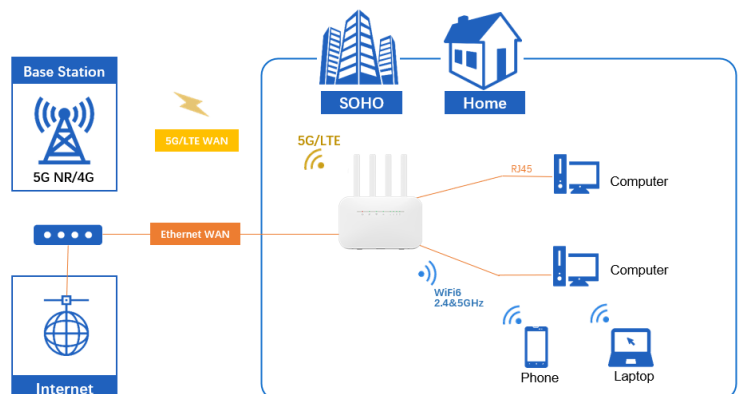
A812M is a high-performance and affordable CPE that supports 5G NR and WiFi6 technology. It implemented the conversion of 5G NR/LTE wireless data to wired Ethernet data. It Supports 802.11ax 3000Mbps and can be used independently

### High Performance

A812M supports global 5G NR/LTE networks with a maximum data rate of up to 4.67Gbps. WLAN supports the IEEE 802.11ax standard. Ax3000 WiFi The data rate can easily provide high-definition videos, online games, and high-quality networks application program.

### Versatility

A812M also support SMS, firewall, QoS, etc. It satisfies the multi-directional requirements of users. Multiple management and maintenance methods (TR069/CLI/APP\*) are convenient for checking and operating. The software online update tool will also constantly provide the upgrade of these functions.



## Features & Specification

### Platform

- \* Chipset: MTK T750
- \* Modem: MT6890V/AZA 2.0GHZ

### 5G NR/LTE Antennas

- \* Internal 4\*4 5G/LTE antennas
- \* External 4\*4 5G/LTE antenna
- \* LB: 2dBi
- \* MHB: 4dBi

### Wi-Fi Antennas

- \* Internal 2\*2 2.4GHz antennas
- \* Internal 3\*3 5GHz antennas
- \* Gain: 3dBi

### Wireless Module

- \* Automatic/Manual PLMN search
- \* Dual Link backup
- \* Traffic statistics
- \* SMS

### Quality of Service Control

- \* Classification of service flow
- \* Port/VLAN/ IP rate limitation

### Management

- \* WebUI local management
- \* TR069 remote management
- \* Universal Plug and Play (UPnP)
- \* Online and local software upgrade

### Network Protocols and Features

- \* Operation modes: Bridge or Routed and NAT
- \* Connection modes: PPPoE/DHCP/Static
- \* IPv4, IPv6, IPv4/IPv6
- \* DHCP IPv4/IPv6 server
- \* Static (v4/v6) routing
- \* ALG/DMZ/virtual server
- \* ARP/ICMP/DNS proxy
- \* NTP
- \* VLAN

### Wireless LAN

- \* Support 2.4G 802.11 b/g/n
- \* Support 5G 802.11 a/n/ac/ax
- \* 20/40/80 MHz bandwidth (5GHZ)
- \* Channel adaption
- \* MSSSID + Guest network
- \* WPS: PBC/PIN modes
- \* WPA/WPA2/WPA3 security
- \* MU-MIMO & OFDMA

### Security

- \* Built-in firewall
- \* Defense of DoS, ARP attacks/Port scan
- \* MAC/Port filtering

### Hardware Specification

#### Physical Interface

- \* 1×USB2.0
- \* 1×2.5G WAN/LAN port
- \* 3×GE LAN port
- \* 1×Power port
- \* 1×SIM slot
- \* eSIM (optional)

#### Button

- \* WPS
- \* Reset Button
- \* Power Button

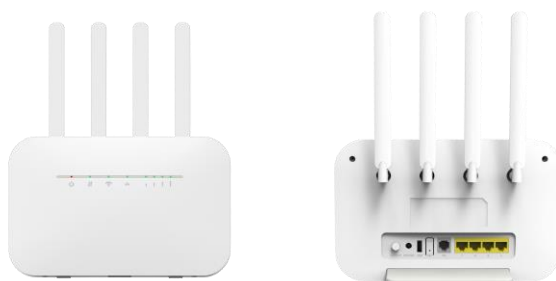
#### LED indicators

- \* 5G NR indicator
- \* 4G LTE indicator
- \* 5G Wi-Fi indicator
- \* 2.4G Wi-Fi indicator
- \* Internet indicator
- \* Power indicator

#### Physical specification

- \* Dimensions:
- \* Operating temperature: -10°C to 75°C
- \* Storage temperature: -40°C to 70°C
- \* Humidity: 5% – 95% (non-condensing)

## Interface Diagram<sup>①</sup>



# A812M

## 5G CPE

### Model Selection

Main Frequency Selection		
Model	area	Frequency Band <sup>②</sup>
A812M-EU		5G NR NSA:n1/3/5 (71) <sup>2</sup> /7/8/20/28/38/40/41/77/78 5G NR SA: n1/3/5(71) <sup>2</sup> /7/8/20/28/38/40/41/77/ 78 LTE-FDD:B1/3/5 (71) <sup>2</sup> /7/8/20/28/32 LTE-TDD: B38/40/41/42/43 WCDMA:B1/5 <sup>2</sup> /8
A812M-NA		5G NR NSA:n2/5/7/12/25/38/41/48/66/71/77/78 5G NR SA: n2/5/7/12/25/38/41/48/66/71/77/78 LTE-FDD:B2/4/5/7/12/13/14/17/25/26/29/30/66/71 LTE-TDD: B38/41/42/43/48 WCDMA: -
A812M-LA		5G NR NSA:n2/5/7/28/66/78 5G NR SA: n2/5/7/28/66/78 LTE-FDD:B2/4/5/7/8/28/66 LTE-TDD: B42/43 WCDMA: B2/4/5
<sup>2</sup> optional		

### Packing List

- 5G CPE
- Quick start Guide (warranty card)
- Power adapter
- CAT5E Ethernet cable

① Pictures are for reference only.

② For CA&ENDC bands, see CA&EN-DC\_Features for details