



# XMC2842

LTE CAT6 CPE

## Highlights:



2\*LTE external antennas  
2\*External antennas(2.4GHz)  
2\*Internal antennas(5GHz)



Antenna folding design  
Save packaging space



IPSec/PPTP/L2TP  
VPN

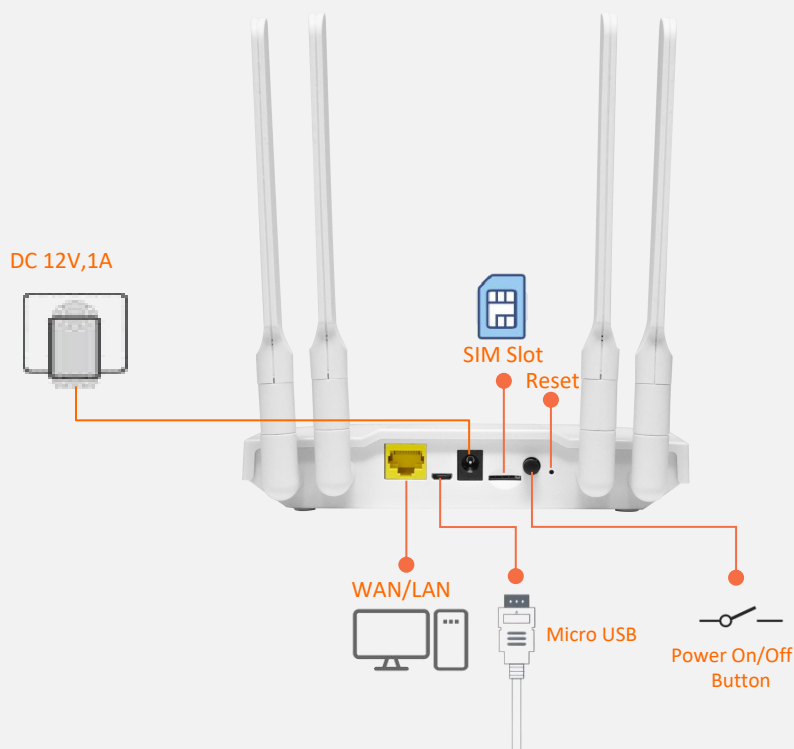


O&M:  
WebUI/TR069/FOTA

## Introduction:

XMC2842, LTE CPE is developed based on several worldwide proven chipset solutions, integrated with the high technologies in LTE CAT6, WIFI 5 Hotspot, Ethernet WAN/LAN and Web-UI management. It supports TR069 remote management and FOTA.

## Interface of XMC2842:



## ○ Hardware Parameter

Dimension	164*109*29mm(L×W×H)
Net weight	About 194g
Operating condition	Operating temp: -20°C ~ +45°C
Storing condition	Storing temp: -20°C ~ +60°C
Power adapter	DC 12V,1A
Power supply	≤12W
Interface	1*GE+USB+USIM+WiFi5
Indicators	POWER, WiFi, DATA , WAN/LAN, LTE
Buttons	Reset, Power ON/OFF

## ○ LTE WAN Feature

Chipset	ASR1828
Frequency Bands	<p>XMC2842-EU:</p> <ul style="list-style-type: none"> <li>• FDD LTE: B1/B3/B5/B7/B8/B20/B28</li> <li>• TDD LTE: B38/B40/B41</li> <li>• UMTS: B1/B5/B8</li> </ul> <p>2CA:</p> <ul style="list-style-type: none"> <li>• B1 + B1/B3/B5/B7/B8/B20/B28;</li> <li>• B3 + B3/B5/B7/B8/B20/B28;</li> <li>• B7 + B5/B7/B8/B20/B28;</li> <li>• B38 + B38, B40 + B40, B41 + B41</li> </ul>
Bandwidth	LTE: 1.4/3/5/10/15/20 MHz, comply with 3GPP
Modulation	<ul style="list-style-type: none"> <li>• DL: QPSK/16-QAM/64-QAM, comply with 3GPP</li> <li>• UL: QPSK/16-QAM, comply with 3GPP</li> </ul>
LTE Antenna	External, MIMO: 2 * 2 LTE Antennas
RF Power	<ul style="list-style-type: none"> <li>• LTE: Power Class 3 (23 dBm ±2 dB)</li> <li>• UMTS: Power Class 3 (23 dBm ±2 dB)</li> </ul>
Data Rate	<p>4G: 3GPP R10 Cat6            FDD: Downlink/Uplink up to 300Mbps/50Mbps            TDD: Downlink/Uplink up to 220Mbps/30Mbps</p> <p>3G: 3GPP R8 DL/UL up to 42Mbps/5.76Mbps</p>

## ○ WLAN Feature

Chipset	RTL8192FR+RTL8812FR
Frequency	2.4GHz/5GHz
Protocol	802.11a/b/g/n/ac, 20MHz/40MHz/80MHz
Channel	2.4GHz: 1~13; 5GHz: 36 40 44 48 52 56 60 64 100 104 108 112 116 120 124 128 132 136 140 149 153 157 161 165
Receiver input level sensitivity	<ul style="list-style-type: none"> <li>• &lt;-76dBm at the antenna port,QPSK,11Mbps, 1024 Byte PSDU @ 802.11b</li> <li>• &lt;-65dBm at the antenna port,64QAM,54Mbps, 1024 Byte PSDU @ 802.11g</li> <li>• -64dBm at the antenna port,64QAM,65Mbps, 4096 Byte PSDU @ 802.11n(HT20)</li> <li>• &lt;-61dBm at the antenna port,64QAM,135Mbps, 4096 Byte PSDU@ 802.11n(HT40)</li> <li>• &lt;-55dBm at the antenna port,256QAM,135Mbps, 4096 Byte PSDU@ 802.11ac(HT80)</li> </ul>

## ○ WLAN Feature

Antenna	<ul style="list-style-type: none"> <li>• 2.4GHz External, 2 x 2 MIMO</li> <li>• 5GHz Internal ,2x2 MIMO</li> </ul>
Data Rate	<ul style="list-style-type: none"> <li>• 802.11b: Up to 11 Mbps</li> <li>• 802.11g: Up to 54 Mbps</li> <li>• 802.11n: Up to 300 Mbps</li> <li>• 802.11ac: Up to 866.7 Mbps</li> </ul>

## ○ Function Data

Interfaces	• LAN/WAN: 1* RJ45 with 10/100/1000Mbps, support WAN/LAN Self-Adapter
USIM	Single, Standard SIM slot 4FF
USB	Micro USB, Use for FW debug or ECM modem (USB RNDIS)
WebUI	<p>System:Connection Status/Statistics /Device Management/Power Mangement</p> <p>Language:Chinese/English/Español/Português, Customized</p> <p>Management: TR069/FOTA</p> <p>FW Upgrade: USB/FOTA</p>
Mobile Service	<ul style="list-style-type: none"> <li>• SMS Manager</li> <li>• Automatic APN matching according to USIM</li> <li>• Auto Data Connection</li> <li>• USSD Service optional</li> <li>• PIN/PUK Management</li> <li>• Network Mode Selection(LTE/3G/Auto)</li> </ul>
Router	<ul style="list-style-type: none"> <li>• Support SSID</li> <li>• APN management</li> <li>• Access Control, Local Management</li> <li>• Traffic Control (IP QoS)</li> <li>• Access Control, Local Management</li> </ul>
L3	<ul style="list-style-type: none"> <li>• Support IPv4/IPv6</li> <li>• DHCP Server, Dynamic IP, Static IP</li> <li>• UPnP, DMZ</li> <li>• DDNS, NAT, USSD</li> </ul>
Security	<ul style="list-style-type: none"> <li>• Support WPA2(AES)-PSK/, WPA-PSK/WPA2-PSK encryptions</li> <li>• Support Firewall</li> <li>• PORT Filtering/ Port Mapping/ Port Forwarding</li> <li>• VPN Pass through contains IPSec VPN, PPTP VPN, L2TP VPN</li> </ul>
OS	<ul style="list-style-type: none"> <li>• Windows 7/8/XP/10</li> <li>• MAC OS 10.10+</li> <li>• Andriod 10/11</li> <li>• Linux Ubuntu 15.04+</li> <li>• Browser Edge, Firefox, Google Chrome, Safari, Opera</li> </ul>
Certification	<ul style="list-style-type: none"> <li>• CE Certification</li> <li>• RoHS Material</li> </ul>