

MaxComm

4G CAT 12 indoor CPE WR-138

(V1.04)

WR-138 4G CAT 12 CPE is a wireless high-speed complete solution developed based on 4G cellular technology and Wi-Fi home network technology. It uses a MIPS CPU to provide dynamic data processing and management computing power for the reference design, a high-performance firewall-router, and high-performance virtual private network (VPN) security acceleration.

It can help broadband operators, Internet service providers (ISP) and OEMs to rapidly develop and deploy all-wireless home Internet for the latest 4G, by promoting plug-and-play gigabit connection solutions to replace DSL, cable and fiber deployment. Changes in the traditional home broadband industry.



Chipset Solution

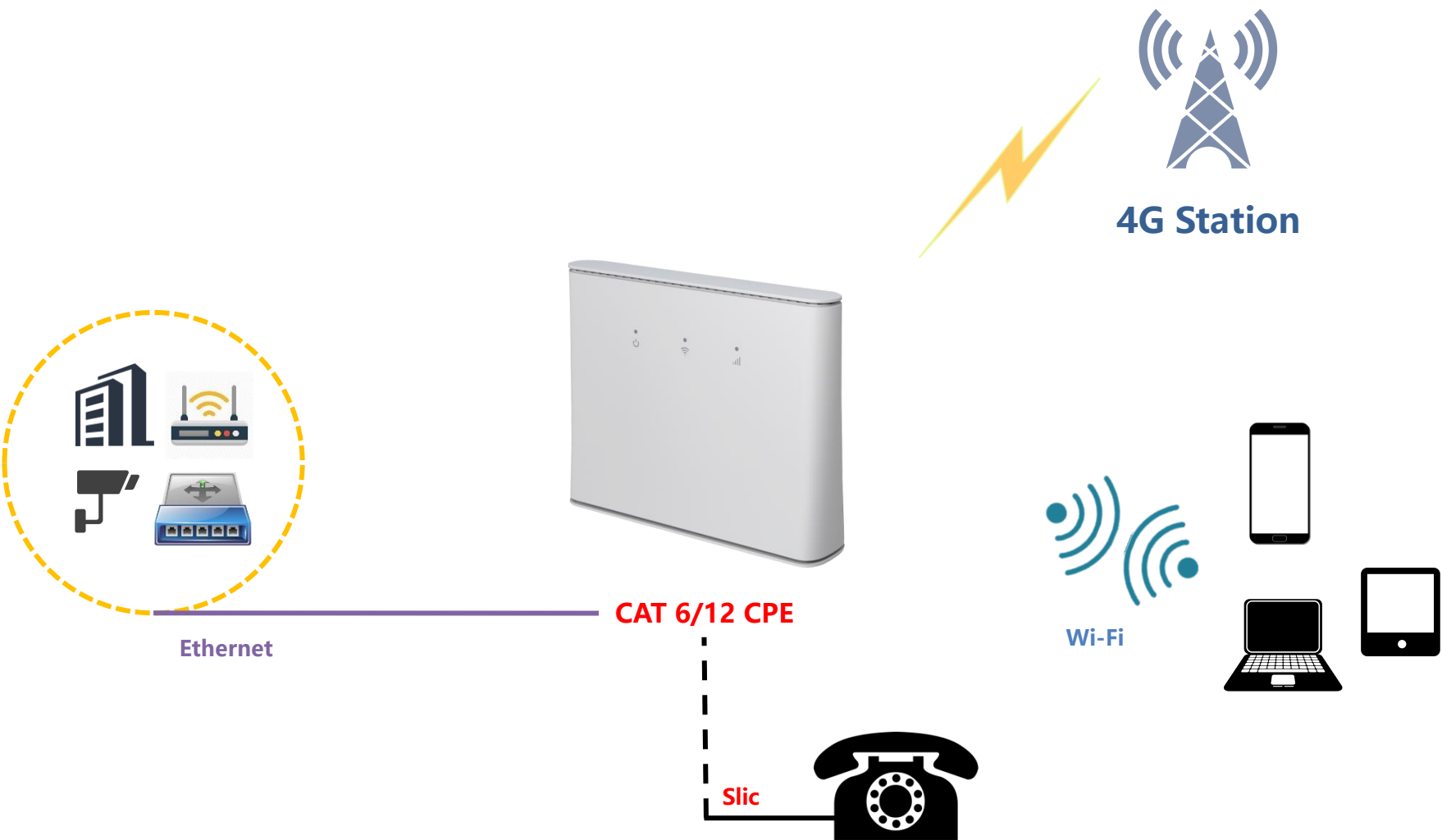
MT7621A + CAT 12 modem

Interface Specification

- ◆ 4G CAT 12 , 2*2 MIMO or 4*4 MIMO.
- ◆ 2* RJ45 for 1 *WAN/1* LAN ,1000Mbps ports.
- ◆ 802. 11 a/b/g/n/ac , 2T2R , 2.4GHz /5GHz, 2*2 MIMO, 64 user hotspot sharing.
- ◆ 1*RJ11 slic (Optional), VOLTE voice.
- ◆ USB2.0
- ◆ WPS , Reset.

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Key Feature

▼ Technical Standard

◆ 4G LTE Frequency Bands.

LTE-FDD.

B1/B3/B5/B7/B8/B20/B28/B32

LTE-TDD.

B38/B40/B41/B42(Optional) /B43(Optional)

WCDMA.

B1/B3/B5/B8

◆ WiFi

WLAN. IEEE 802.11a/b/g/n/ac , 2*2 MIMO

WLAN. Built-in 2T2R

◆ Cat6. UL 2CA 64 QAM ,DL 2CA 256QAM ,2x2MIMO

◆ Data Rate (Max.)

LTE-FDD. Max 600Mbps (DL), Max 150Mbps (UL)

LTE-TDD. Max 430Mbps (DL), Max 90Mbps (UL)

DC-HSPA+. Max 42Mbps (DL), Max 11.2Mbps (UL)

WCDMA. Max 384Kbps (DL) , Max 384Kbps (UL)

**Key
Feature**

**Hardware**

Chipset: MT7621A+ Cat 12 modem

Memory: FLASH 16MByte, DDR2 64MByte

Ethernet: 2 * RJ45 GbE

Voice: 1 * RJ11 Slic, VOLTE voice.(Optional)

**Software**

4G/ 3G;

Ethernet;

Firewall;

MAC address Filtering;

WiFi encryption authentication/WPS;

IPv4/ IPv6 and IPv4v6 dual stack support;

WAN/LAN configuration support;

VPN client service (L2TP, PPTP, IPsec, OPENVPN) ;

TR-069 services;

WebUI;

**Environment Requirement**

Operating Temperature: 0°C ~ 40°C

Storage Temperature : -20°C ~ 65°C

Humidity: 5% ~ 95%, non-condensing

Power Supply: Input power 100-240V, 50/60Hz

Input power: 12VDC 1.5A

◆ Software function

- Supports Route Function. NAT/NAPT, RIP v1/v2
- ACL, and prevents DoS attacks, WPA, WPA2, WPA-PSK, WPA2-PSK, WPS security for WLAN.
- Supports PSK.
- Supports WebGui credentials.
- Supports Protocols. TR069 ,PPOE, DHCP etc.
- Supports Port Filter, DMZ, Port Forwarding, NAT (Network Address Translation), MAC address Filter, IP address Filter, ALG etc.
- Supports Access Control
- Manual Firmware Updates.
- Supports Router Settings Backup, SNTP (Simple Network Time Protocol).
- Supports Diagnostic tools (PING, ARP, Router Logs).

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OpenWRT solution introduction

Basic feature in base on the OpenWRT 18.06

like network manage , internet , short message , phonebook etc.