



5G NSA & SA



AX1500



VoIP/VoLTE



Versatility



Management

BRAX FA510

5G CPE

Key Features

Key Benefits

- 5G NR
- WiFi6
- VoIP/VoLTE optional[®]
- MESH

High Rate Wi-Fi 6

- AX1500
- MESH
- MU-MIMO

High Performance

- NSA: 2.2Gbps (DL)/575Mbps (UL)
- SA: 2Gbps (DL)/1Gbps (UL)
- LTE-FDD: 600Mbps (DL)/150Mbps (UL)
- UMTS: 42.4Mbps (DL)/11Mbps (UL)

Security assurance

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

Ideal Use Case

- Home
- Enterprise
- Shop, Store

Overview

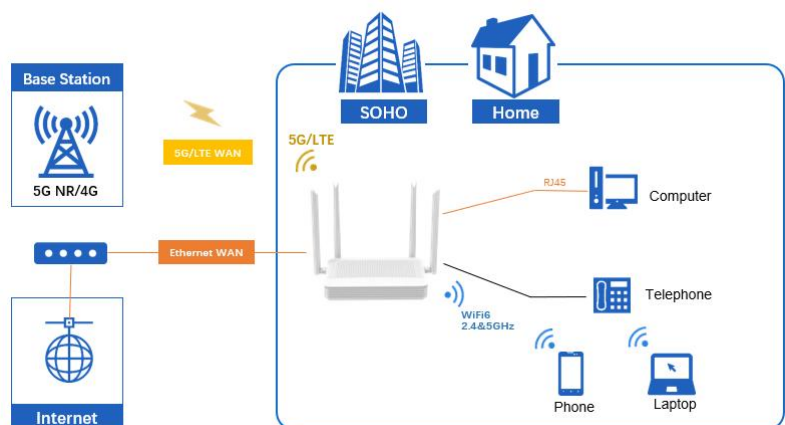
BRAX FA510 is a high performance-price CPE that support 5G NR and WiFi6 technology. It implements the conversion between 5G NR/LTE wireless data and wired Ethernet data. It supports 802.11ax WiFi6 and can be used independently.

High Performance

BRAX FA510 supports the worldwide 5G NR/LTE network, the highest data rate can arrive 2.2Gbps. And the WLAN supports the newest IEEE 802.11ax standards. The AX1500 WiFi data rate can easily supply the HD video, online game, and high-quality network applications.

Versatility

BRAX FA510 also support Voice, 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

- CPU: Realtek Dual-core MIPS 900MHz
- Modem: UNISOC UDX710

5G NR/LTE Antennas

- External 4*4 5G/LTE antennas
- Gain: 5dBi

Wi-Fi Antennas

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

Wireless Module

- Auto/manually network search
- Dual Link backup
- VOIP/VOLTE[®]
- Traffic statistics
- SMS

Quality of Service Control

- 802.11e
- 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

Security

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

Network Protocols and Features

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

Wireless LAN

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

MESH

- EasyMESH*
- One-button Matching

VoIP

- SIP v1 (RFC2543), v2 (RFC3261)
- NAT traversal: STUN (RFC 3489)
- UDP/TCP/DNS-SRV (RFC 3263)
- Transport Layer Security (TLS)
- G.711(A/u)
- G.729A/AB
- G.722
- T.30. T.38

Hardware Specification

Physical Interface

- 1×USB2.0
- 2×GE ports (1GE WAN/LAN transform)
- 1×FXS phone port
- 1×Power port
- 1×SIM slot

Button

- WPS/MESH Button
- Reset Button

LED indicators

- 5G NR indicator
- 4G LTE indicator
- 5G Wi-Fi indicator
- 2.4G Wi-Fi indicator
- LAN port indicator
- Phone indicator
- Power indicator

Physical specification

- Dimensions: 200*135*35mm
- Operating temperature: -10°C to 45°C
- Storage temperature: -40°C to 70°C
- Humidity: 5% – 95% (non-condensing)

Interface Diagram



BRAX FA510

5G CPE

Model Selection

Main Frequency Selection			
Model	Area	Interface	Frequency Band ^②
BRAX FA510-N17	CN	1×USB2.0 2×GE ports 1×VOLTE 1×Power port 1×SIM slot	5G NR NSA: n41/n78/n79 5G NR SA: n1/n28*/n41/n77/n78/n79 LTE-FDD: B1/B2/B3/B5/B7/B8/B20/B28 LTE-TDD: B34/B38/B39/B40/B41 WCDMA: B1/B2/B5/B8
BRAX FA510-N27	Global	1×USB2.0 2×GE ports 1×VOIP 1×Power port 1×SIM slot	5G NR NSA: n38/n41/n77/n78/n79 5G NR SA: n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n48*/n66/n71/n77/n78/n79 LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71 LTE-TDD: B34/B38/B39/B40/B41/B42/B43/B48 LAA: B46 WCDMA: B1/B2/B3/B4/B5/B8/B19

Packing List

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

①: VoIP and VoLTE are supported in different sub-model

②: For CA&ENDC bands, see CA&EN-DC_Features for details.

*: developing