



-  5G NR/LTE-A
-  AC1200 MESH
-  VoLTE/VoNR
-  Versatility
-  Management

# BRAX FA523

## IDU 5G/4G CPE Lite

### Key Features

#### Key Benefits

- Selectable 5G NR or LTE-A
- VoLTE/VoNR\*
- Wi-Fi MESH
- VPN

#### High Rate Wi-Fi

- AC1200
- MESH
- MIMO
- Beamforming

#### High Performance

- NSA: 2.5Gbps (DL)/650Mbps (UL)
- SA: 2.1Gbps (DL)/900Mbps (UL)
- CAT16: LTE-FDD 1.0Gbps (DL)/150Mbps (UL)
- CAT12: LTE-FDD 600Mbps (DL)/150Mbps (UL)
- CAT6: LTE-FDD 300Mbps (DL)/50Mbps (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 FA523 is a high-performance CPE that has different selectable models to support 5G NR or LTE-A. It implements the conversion between 5G NR/LTE wireless data and wired Ethernet data. It supports IEEE802.11ac standard, and can be used independently.

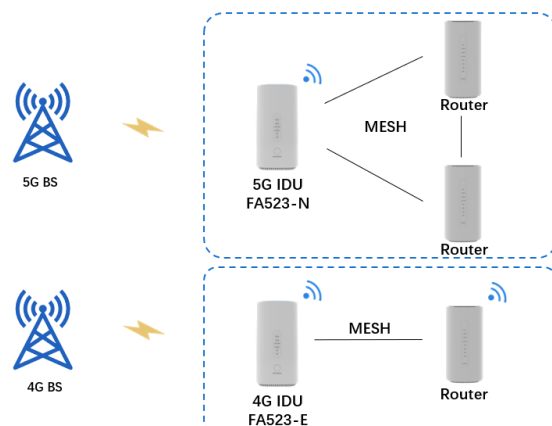
BRAX FA523 provides the stable data, voice, Wi-Fi, maintenance and management service to home and enterprise users.

### High Performance

BRAX FA523 supports the worldwide 5G NR/LTE network, the highest data rate can arrive 2.5Gbps. And the WLAN supports the IEEE 802.11ac standards. The AC1200 WiFi data rate can easily supply the HD video, online game, and high-quality network applications. The MESH function can solve the problem of WIFI coverage in large apartment.

### Versatility

Besides the basic 5G NR and WLAN functions, BRAX FA523 also support VoLTE, SMS, firewall, VPN, 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.



# BRAX FA523

## IDU 5G/4G CPE Lite

### Features & Specification

#### Model Selection

##### ● 5G Model: FA523-N51

5G NR: 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/B38/39/B40/B41/B42/B43/B48  
LAA: B46  
WCDMA: B1/B2/B3/B4/B5/B6/B8/B19

##### ● CAT16 Model: FA523-S11

LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/ B292/B30/B32/B66;  
LTE-TDD: B38/B39/B40/B41/B42/B43/B46/B48(CBRS)  
WCDMA: B1/B2/B3/B4/B5/B8/B9/B19

##### ● CAT12 Model: FA523-E11

LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/B19/B20/B21/B25/B26/B28/B29/B30/B32/B66  
LTE-TDD: B38/B39/B40/B41  
WCDMA: B1/B2/B3/B4/B5/B8/B9/B19

##### ● CAT6 Model: FA523-A04

LTE-FDD: B1/B3/B5/B7/B8/B20/B28/B32  
LTE-TDD: B38/B40/B41  
WCDMA: B1/B3/B5/B8

#### 5G NR/LTE Antennas

- Internal 4\*4 5G antennas
- Internal 4\*4 LTE antennas
- External Antennas ports
- LB: 2dBi
- MHB: 4dBi

#### 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
- Traffic statistics
- SMS
- VoLTE/VoNR\*

#### 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
- VPN: PPTP/L2TP/IPSec\*

#### Security

- Built-in firewall
- Defense of DoS, ARP attacks/Port scan
- MAC/Port filtering
- 802.1x

#### Wireless LAN

- Support 802.11 a/b/g/n/ac standards
- 20/40/80 MHz bandwidth
- Channel adaption
- MSSID + Guest network
- WPS: PBC/PIN modes
- WPA/WPA2 security
- Beamforming
- DL MU-MIMO

#### MESH

- Wi-Fi Son/EasyMESH\*
- One-button Matching

#### 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
- Syslog

#### Hardware Specification

##### Physical Interface

- 1×USB2.0
- 4×GE ports (1GE WAN/LAN transform)
- 1×Phone port
- 1×Power port
- 1×SIM slot
- 2×TS-9 External Antennas port

##### Button

- WPS/MESH Button
- Reset Button
- On/off Button

##### LED indicators

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

##### Physical specification

- Dimensions: L113.8\*W95.4\*H186mm
- Operating Temperature : -10°C ~ 45°C

\*: developing

### Interface Diagram

