



BRAX FA532

IDU 5G CPE

Key Features

Key Benefits

- 5G NR
- MESH
- VoLTE (optional)
- VPN
- Wi-Fi6

High-Rate Wi-Fi 6

- AX5400
- MESH
- MU-MIMO

High Performance

- NSA: 2.5Gbps (DL)/650Mbps (UL)
- SA: 2.1Gbps (DL)/900Mbps (UL)
- CAT16: LTE-FDD 1.0Gbps (DL)/150Mbps (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 FA532 is a high-performance 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

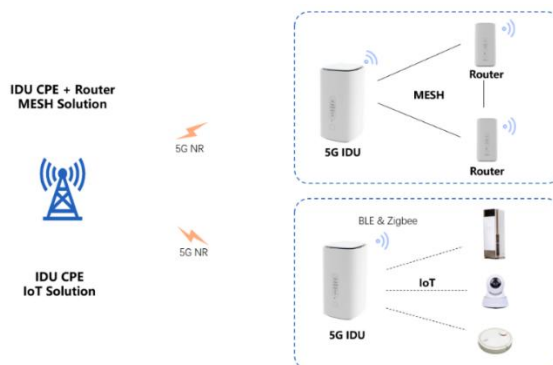
BRAX FA532 supports the worldwide 5G NR/LTE network, the highest data rate can arrive 2.5Gbps. And the WLAN supports the newest IEEE 802.11ax standards. The AX5400 WiFi data rate can easily supply the HD video, online game, and high-quality network applications.

Versatility

BRAX FA532 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.

BLE (optional)

BRAX FA532 supports the BLE function. If the user has own IoT platform and protocol, the CPE can provide a Bluetooth remote connection for IoT devices. Then, user can control and management their IoT devices through 5G/4G cellular networks.



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Features & Specification

Platform

- CPU: Dual Core A53, 1.0GHz
- FLASH: 128MB
- RAM: 512MB

5G NR/LTE Antennas

- Internal 4*4 5G/LTE antennas
- LB: 2dBi
- MHB: 4dBi
- External TS9 ports

Wi-Fi Antennas

- Internal 2*2 2.4GHz antennas
- Internal 4*4 5GHz antennas
- Gain: 3dBi

Wireless Module

- Auto/manually network search
- Dual Link backup
- Traffic statistics
- SMS
- VoLTE¹

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

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
- IGMP snooping and IGMP proxy*
- MLD snooping and MLD 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/ax standards
- 20/40/80/160 MHz bandwidth
- Channel adaption
- MSSID + Guest network
- WPS: PBC/PIN modes
- WPA/WPA2/WPA3 security
- Beamforming
- DL MU-MIMO & OFDMA

MESH

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

Hardware Specification

Physical Interface

- 1×USB2.0
- 4×GE ports (1GE WAN/LAN transform)
- 1×Phone port¹
- 1×Power port
- 1×SIM slot
- 2×TS-9 External Antennas port

Button

- WPS/MESH Button
- Reset Button
- Power 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: 113.8*95.4*186mm
- Operating temperature: -10°C to 45°C
- Storage temperature: -40°C to 70°C
- Humidity: 5% – 95% (non-condensing)

*: developing
1: optional

Interface Diagram



BRAX FA532

IDU 5G CPE

Model Selection

Main Frequency Selection				
Model	Area	Data rate	Frequency Band	Interface
BRAX FA532-N51	CN	NR SA: 2.1Gbps(DL) / 900Mbps (UL) NR NSA: 2.5Gbps(DL) / 550Mbps(UL) LTE: 1Gbps(DL) / 200Mbps(UL) WCDMA: 42Mbps(DL) / 11Mbps(UL)	5G NR NSA: n1/n28/n41/n78/n79 5G NR SA: n41/n78/n79 LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/B38/B39/B40/B41 WCDMA: B1/B8	1×USB2.0 4×GE ports 1×Power port 1×SIM slot 2×TS-9
BRAX FA532-N54	EMEA/ OA/Brazil	NR SA: 2.1Gbps(DL) / 900Mbps (UL) NR NSA: 2.5Gbps(DL) / 650Mbps(UL) LTE: 1Gbps(DL) / 200Mbps(UL) WCDMA: 42Mbps(DL) / 11Mbps(UL)	5G NR NSA: n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78 5G NR SA: n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78 LTE-FDD: B1/B3/B5/B7/B8/B20/B28/B32 LTE-TDD: B38/B40/B41/B42/B43 WCDMA: B1/B5/B8	1×USB2.0 4×GE ports 1×Power port 1×Phone port 1×SIM slot 2×TS-9
BRAX FA532-N27	CN	NR SA: 2Gbps(DL) / 1Gbps (UL) NR NSA: 2.2Gbps(DL) / 575Mbps(UL) LTE: 600Mbps(DL) / 150Mbps(UL) WCDMA: 42Mbps(DL) / 11Mbps(UL)	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	1×USB2.0 4×GE ports 1×Power port 1×Phone port 1×SIM slot 2×TS-9

Packing List

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