




-  5G NSA&SA
-  Wi-Fi 7
-  VoLTE/VoNR
-  Versatility
-  Management

Transform 5G signal to your High Rate Wi-Fi 7

BRAX FA586

IDU 5G CPE Pro

Key Features

Key Benefits

- 3GPP Release 16 standards
- Worldwide 5G and LTE-A coverage
- Support both NSA and SA modes
- WiFi7
- 2.5G WAN port
- VoLTE/VoNR
- VPN

High Rate Wi-Fi 7

- BE7200
- MESH
- MU-MIMO
- Beamforming

High Performance

- Multi-frequency coverage

Security assurance

- Stable firewall
- Multiple filtering rules
- Multiple security protocols
- Online upgrade

Ideal Use Case

- Home
- Enterprise
- Shop, Store

Overview

BRAX FA586 is a 5G wireless gateway CPE that implements the conversion between 5G NR/LTE wireless data and wired Ethernet data. It supports 802.11ax WiFi7, MIMO, and can be used independently.

BRAX FA586 supports 5G NR Sub6 bands, and LTE Cat19 UE category, which provides the stable data, voice, Wi-Fi, maintenance and management service to home and enterprise users.

High Performance

BRAX FA586 supports the worldwide 5G NR network. The WLAN supports the newest IEEE 802.11be standards. The BE11000 WiFi data rate can easily supply the HD video, online game, and high-quality network applications. The MU-MIMO and beamforming function can ensure the high data rate and signal quality when several users are using simultaneously.

Versatility

Besides the basic 5G NR and WLAN functions, BRAX FA586 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.



Features & Specification

Platform

- MTK T830

5G NR/LTE Antennas

- Internal 5G antennas
- Internal LTE antennas
- LB: 2dBi
- MHB: 4dBi

Wi-Fi Antennas

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

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*

Wireless Module

- Auto/manually network search
- Dual Link backup
- Traffic statistics
- SMS
- VoLTE/VoNR*

Security

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

Quality of Service Control

- 802.11e
- Classification of service flow*
- Port/VLAN/ IP rate limitation*

Wireless LAN

- Support 802.11 a/b/g/n/ac/ax/be standards
- 20/40/80/160/320 MHz bandwidth
- Channel adaption
- MSSID + Guest network
- WPS: PBC/PIN modes
- WPA/WPA2/WPA3 security
- Beamforming
- DL/UL MU-MIMO, OFDMA

MESH

- EasyMESH*
- One-button Matching

Management

- WebUI local management
- TR069 remote management
- Universal Plug and Play (UPnP)
- Online and local software upgrade
- Syslog

Hardware Specification

Physical Interface

- 1×USB
- 1×2.5GE WAN/LAN port
- 3×GE LAN port
- 1×phone port
- 1×Power port
- 1×SIM slot

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: L124.2*W104.2*H213.7mm
- Operating temperature: -10°C to 45°C
- Storage temperature: -40°C to 70°C
- Humidity: 5% – 95% (non-condensing)

*: developing

Interface Diagram



BRAX FA586

IDU 5G CPE Pro

Model Selection

Main Frequency Selection		
Model	Area	Frequency Band
BRAX FA586-64	EMEA/APAC	5G NR NSA: n1/ 3/ 5/ 7/ 8/ 20/ 28/ 38/ 40/ 41/ 75/ 77/ 78/ 79/ 71 5G NR SA: n1/ 3/ 5/ 7/ 8/ 20/ 28/ 38/ 40/ 41/ 75/ 77/ 78/ 79/ 71 LTE-FDD: B1/ 3/ 5/ 7/ 8/ 20/ 28/ 32/ 71 LTE-TDD: B38/ 40/ 41/ 42/ 43 WCDMA: B1/B5/B8

Packing List

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