BRAX FA225A
Indoor 4G/LTE Router

LTE CAT6	Wi-Fi AC1200	VoIP	VPN	Management

Overview

BRAX FA228A is an LTE wireless gateway CPE that implements the conversion between 4G/LTE data and wired Ethernet data. It supports data backhaul function, and can be used independently. The FA228A is suited for indoors deploy.

BRAX FA228A supports the LTE R11 standards, and CAT6 UE category, which provides the stable data, voice, Wi-Fi, maintenance and management services to home and SOHO users.

Versatility

Besides the basic LTE and WLAN functions, BRAX FA228A also support voice, SMS, firewall, VPN, QoS and etc. It satisfies the multi-directional requirements of users. Multiple management and maintenance methods (TR069/Telnet/APP) are convenient for checking and operating. The software online update tool will also constantly provide the upgrade of these functions.

LAN/WAN Transform

The first ethernet port of BRAX FA228A supports the LAN/WAN transform, user can configure the mode manually. When the fixed broadband is enabled, the device can work as a Wi-Fi router through LAN/WAN port access. It protects user investment.

Key Feature

Support Global Mainstream Bands
• 3GPP release 11 standards
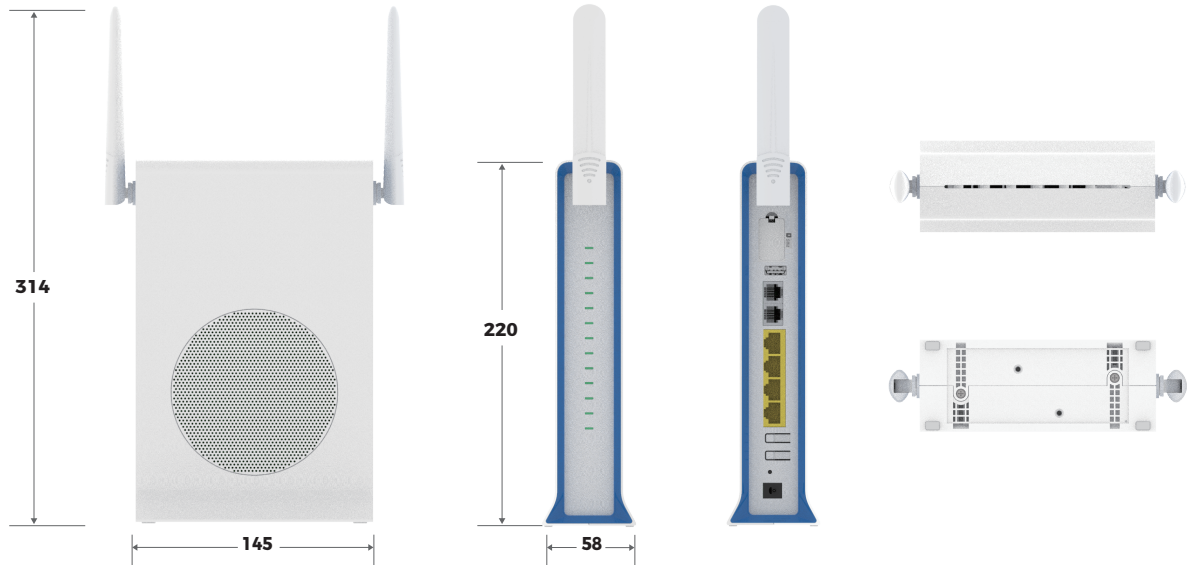• Serial models support different areas

High Rate Wi-Fi 5
• Simultaneous dual band Wi-Fi
• Support MISSID
• WEP/WPA/WPA2-PSK security
• High power and wide coverage area

Security assurance
• Stable firewall
• Support multiple filtering rules
• Multiple security protocols
• Remote management

Dimensions

314

145

220

58

Model Selection

Main Frequency Selection			
Model	Category	Region/Operator	Frequency Band
BRAX FA228A-24	CAT6	EMEA/APAC/Australia	LTE-FDD: B1/3/5/7/8/20/28 LTE-TDD: B38/40/41(100MHz) WCDMA/HSPA+: B1/B3/B5/B8 2CA Combo: B1+B1/3/5/7/8/20/28 　　　　　　B3+B3/5/7/8/20/28 　　　　　　B5+B7 　　　　　　B7+B7/8/20/28 　　　　　　B38+B38 　　　　　　B40+B40 　　　　　　B41+B41(100MHz)
BRAX FA228A-22	CAT6	Latin America	LTE-FDD: B2/4/5/7/12/13/28/66 LTE-TDD: B40 WCDMA/HSPA+: B2/B4/B5 2CA Combo: B2+B2/4/5/7/12/28 　　　　　　B4+B4/5/7/12/28 　　　　　　B5+B5/B7 　　　　　　B7+B7/B12/B28 　　　　　　B40+B40 　　　　　　B66+B66

Notes:

1. * means under development.

2. ① Frequency bands are optional depends on different model.

* Technical specifications are subject to change

Version 1.3.0

HW Features & Specification

Supported Frequency Bands ①

- Support global main-stream frequency band

Electrical Features

Output Power

- WCDMA: 23.5 dBm ±1 dB
- LTE-FDD: 23 dBm ±1 dB
- LTE-TDD: 23 dBm ±1 dB

Physical Interface

- WAN/LAN port 1×GE
- LAN port 3×GE
- Phone port 2×FXS
- SIM slot 1×3FF
- USB port 1×USB2.0

LTE Antennas

- External 2×2 LTE antennas
- Omni-Directional antennas
- Gain: 4dBi

Wi-Fi Antennas

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

Max. Data Transmission Rates

LTE-FDD:

300 Mbps (DL)/ 50 Mbps (UL)

LTE-TDD:

260 Mbps (DL)/ 30 Mbps(UL)

DC-HSPA+:

42 Mbps (DL)/ 11 Mbps(UL)

WCDMA:

384 Kbps (DL)/ 384 Kbps (UL)

Button

- WPS Button
- Wi-Fi Button
- Reset Button

LED indicators

- Phone indicator
- WPS indicator
- 2.4GHz Wi-Fi indicator
- 5GHz Wi-Fi indicator
- LAN indicator
- Internet indicator
- System indicator
- LTE indicator
- LAN indicator
- Power indicator

Physical specification

- Dimensions: L145mm*H220mm*W58mm (without antennas)
- Operating temperature: -10°C to 45°C
- Storage temperature: -40°C to 70°C
- Humidity: 5% to 95% (non-condensing)

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SW Features & Specification

Network Protocols and Features
- 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

Wireless Module
- Auto/manually network search
- SIM/BAND/Cell/PLMN Lock
- Traffic statistics
- SMS

Wireless LAN
- Support 802.11 a/b/g/n/ac standards
- 2.4GHz/5GHz frequency range
- 20/40/80 MHz bandwidth
- Channel adaption
- MSSID
- WPS: PBC/PIN modes
- WEP/WPA-PSK/WPA2-PSK security
- AP Isolation
- SSID Isolation
- SSID and WAN binding

Quality of Service Control
- 802.11e WMM
- Classification of service flow*
- Port/VLAN/ IP rate limitation*

Operation Modes
- Bridge
- Route

Security
- Built-in NAT firewall
- Defense of DoS, ARP attacks/Port scan
- MAC, URL filtering
- IP/protocol/Inflow/outflow filtering

VoIP/Voice service
- SIP/IMS SIP protocol
- Call forwarding
- Number hiding
- Call waiting and call holding

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

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