

Pioneer in **5G&WiFi6** CPE



Indoor 5G CPE Pro

BRAX FA589

Product Introduction

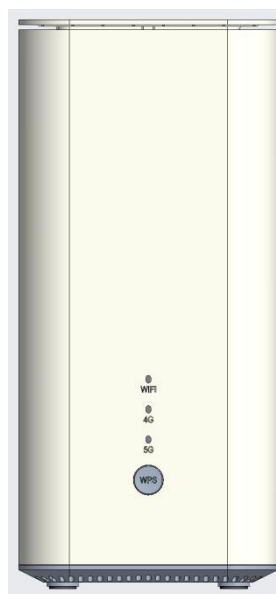
MegaTower 

Wuhan Da Ta Technologies Co.,Ltd

BRAX FA589 is a high-performance 5G cellular communication router product launched by Wuhan Da Ta Technologies, providing users with high-speed, low latency and strong reliability 5G wireless network. The product converts 5G NR / LTE wireless data with Ethernet and WiFi 7 data, supports wired network and high-speed WiFi access downstream, and can easily connect wired or WiFi connected devices such as PC, laptop, tablet and smartphone to high-speed 5G network.

Product Overview

Complied to 3GPP R16 standard, the BRAX FA589 product supports both 5G NSA and SA mode, can cover most of the broadband application scenarios and provides flexible and high-speed data transmission services. Equipped with the latest generation of WiFi 7 chips, 2.5 Gigabit Ethernet, high gain antennas, the product can be flexibly used and fast deployed, fulfilling requirements of various network scenarios. The product mainly targets to small and medium-sized enterprises, shops along the street and home users, providing users with fast, convenient, high-speed network services.



Product Highlights

High-speed Internet experience

- ✧ The product supports global mainstream frequency band, supports both SA/NSA network, and provides 5G ultra-fast Internet access.
- ✧ 5G, WiFi 7, Ethernet ports all reach the gigabit level, providing excellent access experience.

Latest WiFi 7 standard, multi-device access without delay.

- ✧ Supports 4*4 MIMO on all 2.4GHz, 5GHz and 6GHz triple bands, and the overall theoretical throughput up to 19000Mbps.
- ✧ Powered by OFDMA technology, the product is able to send data packets to several devices at the same time; with MU-MIMO technology, multi-devices can access to Internet concurrently without queuing.
- ✧ The latest Multi-Link Operation technology enables one STA to connect to CPE concurrently with multiple bands, which strongly enhances the throughput and reduces the latency.

One-click Mesh networking to expand WiFi coverage

- ✧ Supports mesh networking, and can quickly build a mesh network with the corresponding wireless router to expand the coverage of WiFi network.
- ✧ The device is equipped with multiple independent FEM and high performance WiFi antennas to increase signal transmission power and receiving sensitivity.

Combined access, convenient and fast

- ✧ Supports both 5G NR and Ethernet port access for upstream and multiple Gigabit Ethernet ports, WiFi7 access for downstream wired/wireless access combined traffic integrated. All requirements can be solved simultaneously.

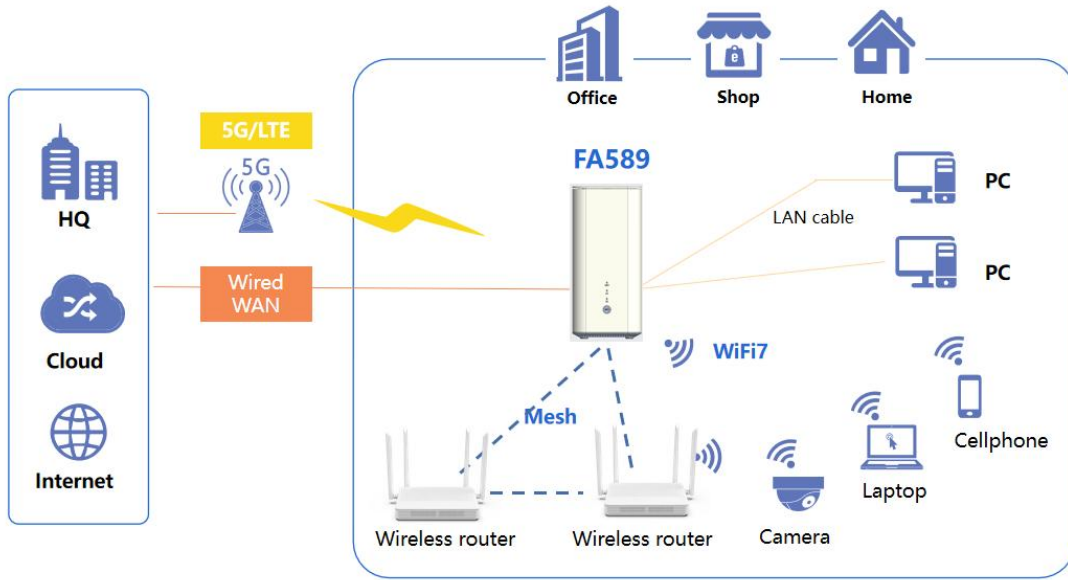
Product Specification

Hardware Specification	
System Parameters	
Main CPU Architecture	MTK T830 4 core Cortex-A55 @2.2GHz
Memory	DRAM: 2GB; Flash: 4GB
5G Chip	MTK T830
Interface Parameters	
5G NR	Support SA&NSA network
5G Antenna	8 built-in antennas
SIM Card	1*Nano SIM
WAN Port	1* 2.5 GE port, 1000M/2500M adaptive, type: RJ45 (WAN/LAN dual purpose port)
LAN Port	1* 2.5 GE port, 1000M/2500M adaptive, type: RJ45
WiFi Protocol	2.4 GHz IEEE 802.11 b/g/n/ax/be 4T4R 5 GHz IEEE 802.11 a/n/ac/ax/be 4T4R 6 GHz IEEE 802.11 ax/be 4T4R
WiFi Theoretic Throughput	Overall theoretic WiFi throughput: 19000Mbps 2.4GHz: 1376Mbps (4ss 40MHz) 5GHz: 5765Mbps (4ss 160MHz) 6GHz: 11530Mbps (4ss 320MHz)
WiFi Antenna	Built-in omnidirectional 2.4GHz 4x4 MIMO antenna Built-in omnidirectional 5GHz 4x4 MIMO antenna Built-in omnidirectional 6GHz 4x4 MIMO antenna
USB port	1 * USB3.0 Type-C
GNSS	1 * Built-in GNSS (GPS/GLONASS/BDS/Galileo/QZSS)
Physical Parameters	
Dimension	103mm*103mm*225.5mm
Material	ABS Shell
Colour	White
Weight	893g
Installation	Tabletop
Button	RESET; WPS

Indicator	1 * WIFI, 1 * 5G, 1 * 4G
Power Supply	
Power Supply	Power adaptor
Output Voltage	12V
Output Current	4A
Environment Parameters	
Working Temperature	-20°C ~ +45°C
Storage Temperature	-20°C ~ +70°C
Working Humidity	5% ~ 95% (Non condensing)
Storage Humidity	5% ~ 95% (Non condensing)

Software Specifications	
5G Access	SA&NSA network, 5G/LTE, automatic network searching , manual network setting, APN, traffic statistics, SMS
WAN Access	Routing mode, Bridge mode
LAN Access	VLAN Management, MAC Management
WiFi Access	Support 802.11 a/b/g/n/ac/ax/be standard, Channel Adaptive, MSSID , WPS: PBC/PIN mode, WPA/WPA2/WPA3 security encryption, Mesh Networking, WMM
IP Application	IPv4/IPv6, TCP, UDP, DHCP, OSPF, HTTP, HTTPS, DNS, ARP, QOS, Telnet, SSH etc
Routing	Static routing V4/V6, Dynamic routing RIP
VPN Protocol	PPTP, L2TP, IPSEC, GRE, OpenVPN
Security	SPI, ACL, DMZ, Port forwarding, MAC binding,, DoS & DDoS attack defense,, URL filtering
Device Management	TR069, WEB, SMS

Networking



Product Views

