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Indoor 5G CPE Basic

BRAX FA525

Product Introduction

"Introducing the BRAX FA525, a high-value 5G cellular communication router from Wuhan Data Tower Company. This innovative product offers users access to a high-speed, low-latency, and highly reliable 5G wireless network. The BRAX FA525 excels at bridging the gap between 5G NR/LTE wireless data and Ethernet as well as WiFi, seamlessly integrating a variety of devices such as PCs, laptops, tablets, and smartphones into the fast-paced world of 5G connectivity. Experience the future of wireless networking with the BRAX FA525 – your gateway to a connected world."

Product Overview

The BRAX FA525 is powered by a high-performance domestic 5G chip, supporting both 5G NSA and SA modes, ensuring comprehensive coverage for a wide range of broadband applications and offering flexible, high-speed data transmission services. This product is equipped with the latest dual-frequency WiFi 6 chip, full gigabit Ethernet ports, and built-in high-gain antennas, providing flexible usage and rapid deployment to meet the network requirements of various scenarios. Primarily targeted at street-side shops and home users, the BRAX FA525 delivers fast, convenient, and high-speed internet services.

Product Highlight

High Cost Performance, Unleashing the Era of 5G Accessibility

✧ High-Performance 5G Chip: Domestically developed for SA+NSA dual-mode, delivering ultra-fast 5G connectivity.

✧ Efficient Design: Independent CPU, WiFi, and 5G chips for high performance and reliability, without the extra cost.

Advanced WiFi 6 Standard

✧ WiFi 6: Supports AX1800 for seamless gaming and streaming, eliminating lag.

✧ Enhanced 1024QAM: Boosts data efficiency by 25% over 802.11ac, ensuring faster throughput.

✧ BSS Coloring: Minimizes interference for a smoother network experience.

✧ TWT Technology: Increases speed by 30% and reduces power consumption, supporting multi-user transmissions.

Seamless High-Speed Internet

✧ Gigabit Connectivity: All ports support gigabit speeds for a "triple gigabit" experience.

Multi-User Access

✧ Smooth Multi-User Access: OFDMA technology ensures data is sent efficiently to multiple devices.

✧ MU-MIMO: Doubles wireless spectrum efficiency, enhancing user density and bandwidth.

One-Click Mesh Networking

✧ Mesh Networking: Easy setup for expanded WiFi coverage with Mesh capability.

Comprehensive Network Reliability and Security

✧ Dual Connectivity: 5G NR and wired backup ensure continuous network availability.

✧ WPA3 Security: The latest encryption for a more secure and private connection.
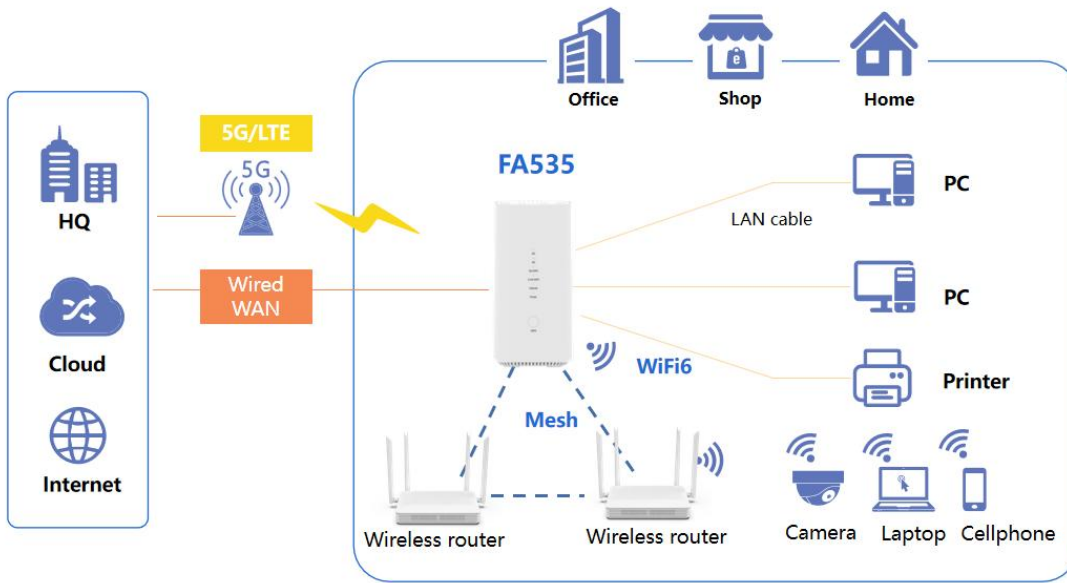
Product Specification

Hardware Specification	
System Parameters	
Main CPU Architecture	Dual Core CPU
Main CPU Frequency	900MHZ/Core
5G Chip	UNISOC V510
Interface Parameters	
5G NR	Support SA&NSA network
5G Antenna	4 built-in antennas
SIM Card	1*Nano SIM 1*eSIM（optional）
WAN Port	1*GE port，100M/1000M adaptive，type：RJ45
LAN Port	2*GE ports，100M/1000M adaptive，type：RJ45
Voice Port	1*FXS Voice Port(Optional)
WiFi Protocol	2.4GHz IEEE 802.11 b/g/n/ax 2T2R 5GHz IEEE 802.11 a/n/ac/ax 2T2R
WiFi Theoretic Throughput	Overall theoretic WiFi throughput: 1800Mbps 2.4GHz: 600Mbps (2ss 40MHz) 5GHz: 1200Mbps (2ss 80MHz)
WiFi Antenna	Built-in omnidirectional 2.4GHz 2x2 MIMO antenna Built-in omnidirectional 5GHz 2x2 MIMO antenna
USB port	1*USB2.0（Module debug serial port）
Physical Parameters	
Dimension	114*95*186mm
Material	ABS Shell
Colour	White
Weight	500g
Installation	Tabletop

Button	POWER；RESET；WPS/Mesh
Indicator	5G NR，4G LTE，5G-WiFi，2.4G-WiFi，Internet，Power，WAN，LAN
Power Supply	
Power Supply	Power adaptor
Output Voltage	12V
Output Current	1.5A
Environment Parameters	
Working Temperature	-10℃ ~ +45℃
Storage Temperature	-40℃ ~ +70℃
Working Humidity	5% ~ 95% (Non condensing）
Storage Humidity	5% ~ 95% (Non condensing）

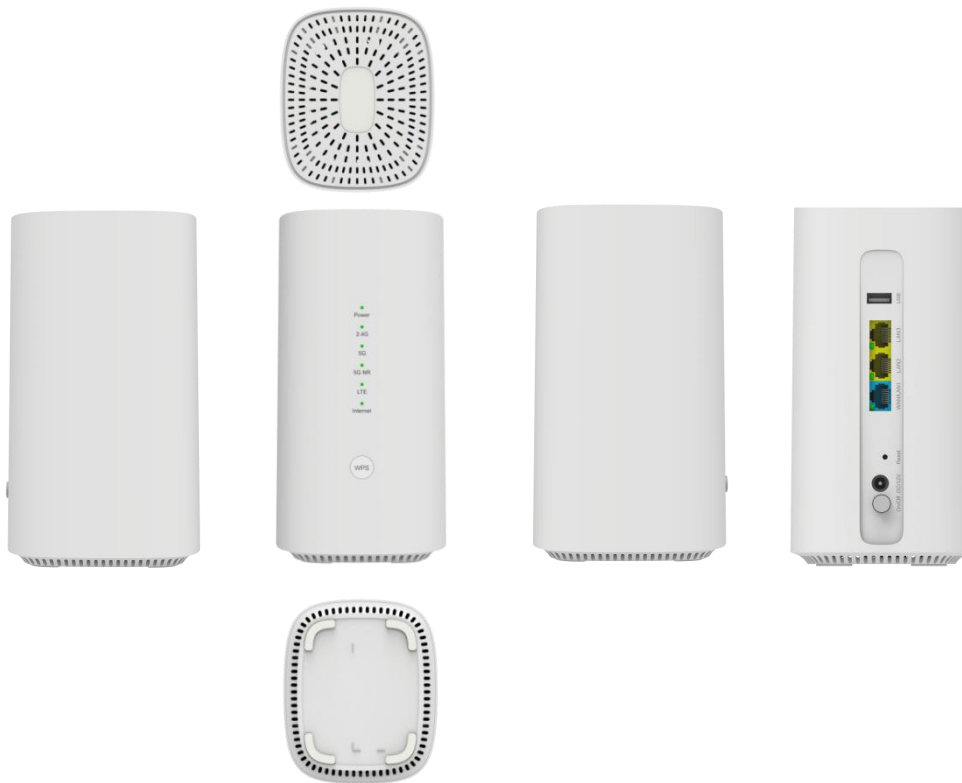| Software Specifications	
5G Access	SA&NSA network，5G/LTE， automatic network searching, APN, Band locking, cell locking*
WAN Access	Routing mode，Bridge mode，Link backup
LAN Access	VLAN Management，MAC Management，IGMP Snooping*，IGMP Proxy*
WiFi Access	Support 802.11 a/b/g/n/ac/ax standard， Channel Adaptive， Multi-SSID， WPS: PBC/PIN mode， WPA/WPA2/WPA3 security encryption， Mesh Networking,
IP Application	IPv4，IPv6，IPv4/IPv6 dual stack，ARP，PPPOE，DHCP Client/Server，DNS， NAT ， ALG， Virtual Server
Routing	Static routing V4/V6
VPN Protocol	PPTP, L2TP， IPSEC*， Vxlan*、GRE*
Security	Basic firewall， anti-attack（ARP， DDOS etc.）， anti-scan， port filtering， MAC filtering， DMZ, DND/URL Filtering
Device Management	TR069， Local WEB,

Note: The * symbol indicates a non-generic feature, support varies from version to version

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Product Views

Order Information

Model	Version	Port	5G Chipset	Bands	Area	Power
BRAX FA525						

Wuhan Mega Tower Technology Co., Ltd.