



5G NR/LTE



WiFi6 AX3600



VoLTE/VoNR



VPN



Management

Transform 5G signal to your High Rate Wi-Fi 6

CPE856 Pro

High Performance 5G CPE

Key Features

Key Benefits

- 3GPP Release 15 standards
- Worldwide 5G and LTE-A coverage
- Support both NSA and SA modes
- WiFi6
- 2.5G LAN/WAN port
- VoLTE/VoNR*
- VPN

High Rate WIFI 6

- AX3600
- MESH*
- 4*4 MU-MIMO
- Beamforming

High Performance Antennas

- Internal 4*4 5G NR/LTE antennas
- Internal dual-bands 4*4 WiFi antennas
- Multi-frequency coverage
- High Gain

Security assurance

- Stable firewall
- Multiple filtering rules
- Multiple security protocols
- Support backup of configuration files
- Online update and maintenance

Ideal Use Case

- Home
- Enterprise
- Shop, Store

Overview

CPE856 is a 5G wireless gateway CPE that implements the conversion between 5G NR/LTE wireless data and wired Ethernet data. It supports 802.11ax WiFi6, 4*4 MIMO, and can be used independently.

TYTX CPE856 supports 5G NR Sub6 bands, and LTE Cat20 UE category, which provides the stable data, voice, Wi-Fi, maintenance and management service to home and enterprise users.

High Performance

CPE856 supports the worldwide 5G NR network, the highest data rate can arrive 2.33Gbps. And the WLAN supports the newest IEEE 802.11ax standards. The AX3600 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, FA556 also support VoLTE, SMS, firewall, VPN, QoS, 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

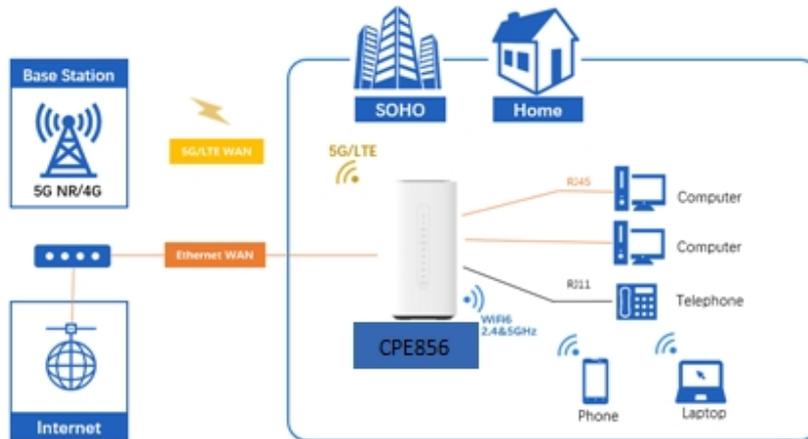
The 2.5G ethernet port of BRAX FA556 supports the LAN/WAN transform, user can configure the mode manually/automatically*. When the fixed broadband is enabled, the device can work as a Wi-Fi router through LAN/WAN port access. It protects user investment.

Dual Connection*

CPE856 supports the dual connection between 5G NR and Ethernet uplink. These two kinds of uplink connections can be set to the backup of each other. When the default uplink connection is broke, the connection will switch to the backup line automatically. This function safeguards the data transfer of users, which also improve the stability of data service.

CPE856Pro

IDU 5G CPE



Features & Specification

Supported Frequency Bands

- Worldwide 5G and LTE bands:
 - 5G NR: n41/n77/n78/n79
 - LTE-FDD: B1/B3/B5/B7/B8/B20/B28
 - LTE-TDD: B34/B38/B39/B40/B41
- DL 4*4 MIMO
 - 5G NR: n41/n77/n78/n79
 - LTE-FDD: B1/B3/B7
 - LTE-TDD: B38/B41
 - DL 256QAM
 - UL 64QAM

5G NR/LTE Antennas

- Internal 4*4 5G antennas
- Internal 4*4 LTE antennas
- Gain: >3dBi
- VSWR:<3

Wi-Fi Antennas

- Internal 4*4 2.4GHz antennas
- Internal 4*4 5.8GHz antennas
- Gain: >3dBi
- VSWR: <2

Network Protocols and Features

- Connection modes: PPPoE/DHCP/Static
- IPv4, IPv6, IPv4/IPv6
- DHCP v4/v6 server
- Static (v4/v6) routing and RIP-1/2
- NAT/ALG/DMZ/virtual server
- ARP/ICMP/DNS proxy
- Dynamic Domain Name System (DDNS)
- IGMP snooping and IGMP proxy*
- MLD snooping and MLD proxy
- RIPng
- SNTP
- VLAN
- PPTP/L2TP/IPSec*
- File sharing

Firewall

- Built-in NAT firewall
- Firewall level setting*
- Defense of DoS、ARP attacks/Port scan
- DHCP/ARP/IGMP message suppression*
- MAC/URL filtering
- Inflow/outflow filtering of IP/Protocol/Port
- VPN pass-through

Quality of Service Control

- 802.11e WMM
- Classification of service flow
- DSCP/802.1 p*
- SP and WRR mode
- Port/VLAN/ IP rate limitation

Wireless LAN

- Support 802.11 a/b/g/n/ac/ax standards
- 2.4GHz/5GHz frequency range
- 20/40/80/160 MHz bandwidth
- Channel adaption
- MSSID (8) +Guest network
- Adaptable power control
- WPS: PBC/PIN modes
- WPA-PSK/WPA2-PSK security
- AP Isolation/SSID Isolation
- SSID and WAN binding
- MSSID online list
- Beamforming
- MU-MIMO
- MESH*

VoLTE/VoNR*

- USSD code
- Emergency call
- Number hiding
- Conference

SMS*

- Support extra-long message

Operation Modes

- Bridge or Routed
- Mixed mode

Management

- WebUI local management
- TR069 remote management
- Universal Plug and Play (UPnP)
- Online and local software update/rollback
- Configuration data upload and download
- Syslog monitoring
- Local and remote diagnostic
- System alarm*

Hardware Specification

Physical Interface

- USB3.0
- LAN/WAN port-RJ45 1*2.5G
- LAN ports-RJ45 4*GE
- Phone port-RJ11 1*FXS
- Power port
- SIM slot

Button

- WPS Button
- Reset Button
- On/off Button

LED indicators

- 5G NR indicator
- 4G LTE indicator
- 5G Wi-Fi indicator
- 2.4G Wi-Fi indicator
- 2.5G port indicator
- LAN1 ~ LAN4 indicators
- Phone indicator
- Power/SYS indicator

Physical specification

- Dimensions: L120*W110*H213.7mm

*: developing