

The Tenda logo is displayed in a stylized, italicized orange font at the top left of the page.

Tenda

Wi-Fi 7

ME6 Pro

BE5100 Whole Home Mesh Wi-Fi7 System

Abstract orange light trails and particle effects sweep across the bottom half of the page, creating a sense of motion and energy.

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ME6 Pro

BE5100 Whole Home Mesh Wi-Fi7 System

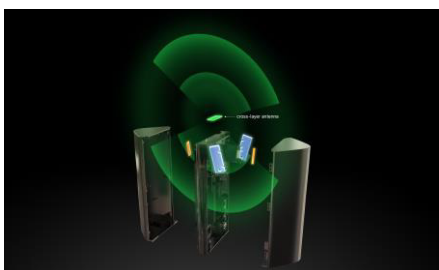
The ME6 Pro is a BE5100 Whole Home Mesh Wi-Fi 7 System designed to provide high-speed internet service for large house. It creates a distributed network with multiple nodes throughout your home by Tenda Mesh technology. With 5 independent external FEMs and Xtra Range™ 2.0 technology, the ME6 Pro has strong signal coverage performance. Adopt the new generation Wi-Fi 7 (802.11BE) technology, dual-band concurrent rates up to 5011Mbps. Equipped with a 6nm Wi-Fi chip and 512MB of large memory, multiple terminal devices surfing the Internet at the same time, you can enjoy high-speed network, ultra-low latency gaming, ultra-smooth 8K video and VR HD applications. ME6 Pro is easy to install, just configure the master node and the sub-nodes can automatically form a network; unique NFC password-free function, simply requiring the visitor's phone to be close to the dedicated NFC sticker to connect to the Wi-Fi.

Main Features



Blazing-fast Wi-Fi7 for the whole home

Adopt the new generation Wi-Fi 7 technology, dual-band concurrent rate up to 5011Mbps. The unique Multi-Link Operation technology of Wi-Fi 7, dual-band simultaneous transmission is possible with Wi-Fi 7 terminal devices, the network speed is faster than the Wi-Fi7 BE3600 router and the network latency is lower.



Innovative intelligent five-antenna Better signal coverage across layers

Tenda innovates five-antenna AI positioning algorithm design, the location of the Internet terminal can be sensed, better coverage than four-antenna. One of them is a dedicated cross-layer antenna, Wi-Fi cross-layer coverage has stronger penetration. With 5 independent external FEMs, the three nodes network coverage without blind spots, beyond traditional four-antenna Mesh Wi-Fi.



2.5G Ethernet port ultra-fast transmission

Equipped with 2.5G Ethernet port, support WAN/LAN port auto-negotiation, access to optical modem can easily handle 2000Mbps broadband; access to LAN devices can meet the high-speed transmission of NAS or computers with 2.5G Ethernet ports.



6nm advanced process chip Stable coverage

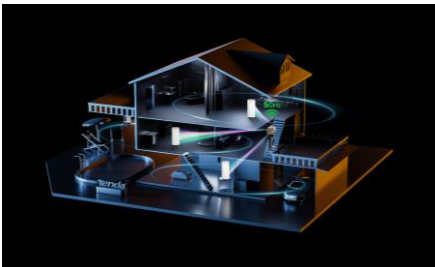
ME6 Pro uses a 6nm advanced process chip with higher integration, lower power consumption and heat generation, significantly improves the stability of Wi-Fi signal transmission, smoother networking experience.

Main Features



Millisecond-level AI seamless roaming Smooth network switching

Self-learning algorithm for network environment based on AI roaming technology, it can guide Internet access devices to automatically connect to the optimal signal node within milliseconds, realize seamless Wi-Fi zero-perception switching, enjoy smooth video calls and gaming on the go.



Wireless access binding Always enjoy the best Wi-Fi

For ultra-fast Internet experience, the phone can lock onto the 5G band with faster network speed at each node of ME6 Pro, enjoy high-speed Internet experience wherever you go at home; TVs and cameras can lock onto the best network node, movies and surveillance videos are always clear and smooth.



AI automatic networking Plug and Play

ME6 Pro is based on AI self-organizing network technology, multiple devices can be automatically discovered and form a network when powered on, easy and convenient installation.



One-Touch Wi-Fi Connection with NFC

Unique NFC password-free function, simply requiring the visitor's phone to be close to the dedicated NFC sticker to connect to the Wi-Fi.

Specification

Hardware Features	
Standard&Protocol	IEEE802.3, IEEE802.3u,IEEE802.3ab
CPU	Dual-Core 1GHz CPU
RAM	512MB
Interface	1*2.5GE Port, 2*GE Ports per node
Antenna	5*3dBi Internal antennas
Button	1x Mesh Button, 1x Reset Button
Power	Input: AC 100-240V, 50/60Hz Output: DC 12V 2A
LED indicator	1x Tri-color LED Indicator(Green, Yellow, Red)
Dimensions	86*86*190mm(3.39*3.39*7.48 in)
Wireless Features	
Wireless Standards	5 GHz: IEEE 802.11be/ax/ac/n/a 2.4 GHz: IEEE 802.11be/ax/n/b/g
Frequency	CE: 2.4G: 2412-2472MHz (CH1-CH13) 5G: 5150-5350MHz (CH36-CH64) FCC: 2.4G: 2412-2462MHz (CH1-CH11) 5G: 5150-5350MHz (CH36-CH64) 5725-5850MHz (CH149-CH165)
Data Rate	5 GHz: 4323 Mbps (802.11be) 2.4 GHz: 688 Mbps (802.11be)
Transmission Power	CE: <20 dBm(2.4GHz) <23 dBm(5GHz) FCC: <30 dBm(2.4GHz) <30 dBm(5GHz)
Basic Functions	Beamforming MU-MIMO AP Steering Band Steering OFDMA 4K-QAM
Wireless Security	WPA2-PSK WPA3-SAE/WPA2-PSK

Specification

Software Function	
Internet Connection Type	PPPoE, Dynamic IP, Static IP PPPoE(Russia), PPTP(Russia), L2TP(Russia) Unify,Maxis,Maxis-special,Celcom,Digi
Network Protocol	IPv4&IPv6
Operating Mode	Router Mode AP Mode Client+AP WISP Mode
DHCP	DHCP Server DHCP Client List
Parental Control	Client Filter URL Filter Time Limit
Virtual Server	UPnP Port Forwarding DMZ Host
Firewall	Forbid UDP Flood Attack Forbid TCP Flood Attack Forbid ICMP Flood Attack Forbid WAN Ping from Internet
DDNS	DynDNS, no-ip, oray, 88ip
VPN	PPTP Server PPTP/L2TP Client
Special Features	WPA3 TR069 Unify 2.4 GHz & 5 GHz Smart LED on/off Amazon Alexa One-button Fault Diagnosis
Other Function	IPTV IPv6 Guest Network System Log Remote Web Management MAC Clone Backup & Restore configurations Firmware upgrade online

Specification

Other Features	
Certification	CE, FCC,RoHS
Temperature	Operating Temperature : 0°C~40°C Storage Temperature : -40C ~70°C
Humidity	Operating Humidity : 10 %~90% RH non-condensing Storage Humidity : 5 %~ 90%RH non-condensing
Package Content	
3-Pack	BE5100 Mesh x 3, Power adapter x 3, QIG x 1, RJ45 Gigabit Ethernet cable x 1, NFC Sticker x 1
2-Pack	BE5100 Mesh x 2, Power adapter x 2, QIG x 1, RJ45 Gigabit Ethernet cable x 1, NFC Sticker x 1
1-Pack	BE5100 Mesh x 1, Power adapter x 1, QIG x 1, RJ45 Gigabit Ethernet cable x 1, NFC Sticker x 1

SHENZHEN TENDA TECHNOLOGY CO.,LTD.

Tenda Technology Bldg.Int' I E-City,
#1001 Zhong Shan Yuan Rd.,Nanshan
District,Shenzhen China.

Website: www.tendacn.com

E-mail: support@tenda.com.cn

PC: 518055

