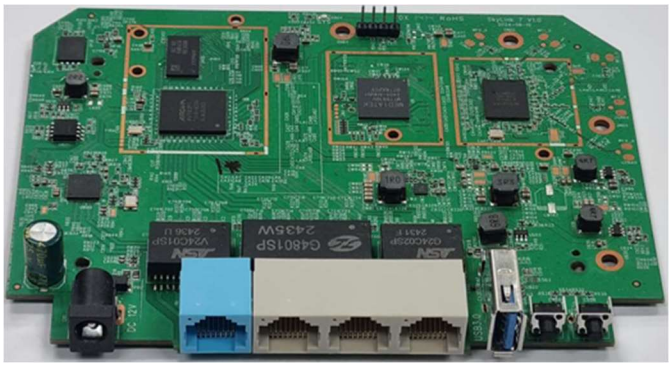
BRBE5000M-2.5G 5000Mbps 11BE Wi-Fi 7 Router



Product Overview

BRBE5000M-2.5G Wireless broadband router integrates firewall, router, wired/wireless network connection functions. BRBE5000M-2.5G Wireless broadband router supports protocols such as 802.11be,802.11ax, 802.11ac Wave2, 802.11ac Wave1 and 802.11n. Using hardware independent dual RF design, the whole machine can provide a maximum access rate of 2.975 Gbps, high-speed wireless makes performance no longer a bottleneck. With multiple encryption mechanism, it can ensure the security of data in the wireless network transmission, and combined with the powerful firewall characteristics of the router, it can provide stronger security protection for wireless communication and effectively prevent virus invasion. A wide range of wireless coverage space provides a free and easy network environment. BRBE5000M-2.5G Support multiple BSSID functions, support QOS-802.11e WMM function, support WDS function, expand the wireless network coverage. BRBE5000M-2.5G Wireless broadband router has standard AP functions, and fully compatible with other manufacturers of wireless network equipment, a wide range of applications. It has complete functions, superior performance, simple setting, is the best choice for wireless Internet access.

Product features

- Compliance with 802.11BE,802.11ax, 802.11ac Wave2, 802.11ac Wave1 and 802.11n.
- Support CSMA/CA,CSMA/CD,TCP/IP, PPPoE, DHCP, ICMP, NAT protocols.
- Srovide 1*WAN port, 3*LAN ports 100/1000M adaptation, Support ports automatic flip.
- Wireless access device, wired router combined for one.
- Provides two working modes: bridging mode and routing mode.
- Support Quality of Service(QoS)-802.11e, WMM.
- Supports remote and Web Management configuration interface.
- Supports NAT/NAPT IP sharing,WAN support protocol: PPPoE/Static IP/DHCP.
- Provides stable transmission.
- Provides stable up to 3000Mbps transmission.
- Supports virtual server, DMZ host.
- Supports 64/128-bit WEP and WPA-PSK, The latest wireless security standard such as WPA 2-PSK.
- Supports UPnP function, DDNS function.
- Support 5 DBi fixed high gain omnidirectional antenna.
- Support IP filtering, port filtering and MAC address filtering.
- Built-in DHCP server, built-in firewall, Effectively prevent DoS attacks.
- Provides system security log and traffic statistics function.
- Provides Web management page reset, Support for online software upgrade of.
- External power adapter.

Product Specifications

Hardware system

Product model		BRBE5000M-2.5G
Interface	WAN	1*100/1000M/2.5G Adaptive RJ 45 port
	LAN	3*100/1000M Adaptive RJ 45 ports
	USB	1*USB3.0 port
Wireless	Frequency range	Radio1：802.11b/g/n/ax/be：2.400GHz~2.483GHz
		Radio2：802.11a/n/ac/ax/be：5.725GHz ~ 5.850GHz
		Radio3：802.11a/n/ac/ax/be：5.150GHz ~ 5.350GHz
		Radio4：802.11b/g/n/ax/be：2.400GHz~2.483GHz
		Radio5：802.11a/n/ac/ax/be：5.150GHz ~ 5.350GHz，5.725GHz ~ 5.850GHz
		Note: Working frequency band varies according to different countries
	Transmission speed	Radio1： 2 .4GHz, 0 .688Gbps
		Radio2:5GHz,2.882Gbps
		Maximum access rate: 2.4Ghz+5GHz,3.570Gbps
	Channels	Supports Auto/Manual
	Frequency-spreadingtechnology	DSSS (direct sequence spread frequency)
Parameter	Modulation type	802.11b：BPSK、QPSK、CCK 802.11a/g/n：BPSK、QPSK、16-QAM、64-QAM 802.11ac：BPSK、QPSK、16-QAM、64-QAM、256-QAM 802.11ax：BPSK、QPSK、16-QAM、64-QAM、256-QAM、1024-QAM 802.11be：BPSK、QPSK、16-QAM、64-QAM、256-QAM、1024-QAM、4096-QAM
	Receiving Sensitivity	11b：-96dBm（1Mbps），-93dBm（5Mbps），-89 dBm （11Mbps） 11a/g：-91dBm（6Mbps），-85dBm（24Mbps），-80dBm（36Mbps），-74dBm（54Mbps） 11n：-90dBm@MCS0，-70dBm@MCS7，-89 dBm @MCS8，-68dBm@MCS15 11ac：HT20：-88dBm（MCS0），-63dBm（MCS9） 11ac：HT40：-85dBm（MCS0），-60dBm（MCS9） 11ac：HT80：-82dBm（MCS0），-57dBm（MCS9） 11ax：HE80：-82dBm（MCS0），-57dBm（MCS9），-52dBm（MCS11） 11ax：HE160：-79dBm（MCS0），-53dBm（MCS9），-50dBm（MCS11） 11be：EHT80：-82dBm（MCS0），-57dBm（MCS9），-52dBm（MCS11），-46dBm（MCS13） 11be：EHT160：-79dBm（MCS0），-53dBm（MCS9），-50dBm（MCS11），-44dBm（MCS13）
	Transmission distance	Up to 100 m indoors; up to 300 m outdoors (depending by environment)
	RF power	20dBm(max)
	Antenna	The 5 * 5 dBi fixed high-gain omnidirectional antenna
	Network medium	10 BASE-T: Cat 3,4,5 Unshielded twisted pair (250m)
		100 BASE-TX: Unshielded twisted pair of Cat 5 and above (100m)
		1000 BASE-TX: Unshielded twisted pair of Cat 5e and above (100m)
LED	WLAN	Link / Act (Connected / Working)
	WAN	Link / Act (Connected / Working)
Indicate	LAN	Link / Act (Connected / Working)
	Button	1*WPS, 1* Reset
Dimensions (LWH)		210.5(L) x 130(W) x 46(H)mm
Environment		Operating temperature: 0℃ ~40℃; working humidity is 10%~90% condensation-free
		Storage temperature: -40℃ ~70℃; storage humidity 5%~90% condensation
Power Supply		Power adapter output: DC 12V/2A

Software specifications

Project	Description
WLAN	Support for SSID hiding Support for each SSID can be configured with a separate authentication mode, encryption mechanism, and VLAN attributes Support for edge intelligent awareness (RIPT) Support the terminal intelligent identification technology Supports intelligent load balancing based on terminal number or traffic rate User Number Limits: Support the SSID-based user number limit Support for RF card-based user number limit Bandwidth limit: Support the speed limit based on STA / SSID / AP
Safety	Support PSK, Web and other certification methods Data encryption: support for WPA (TKIP), WPA-PSK, WPA 2 (AES), WPA 3, WEP (64 / 128-bit) Data frame filtering: support whitelist, static blacklist, dynamic blacklist upport user isolation Support for illegal AP detection and countermeasures Support for dynamic ACL distribution Support for the RADIUS protocol Support for the CPU protection policy (CPP) Support for the Basic Network Protection Policy (NFPP)
Routing exchange function	IPv4 feature: Support for static IPv4 addresses and DHCP for obtaining IPv4 addresses Support for the IPv6 SAVI Support for multicast to unicast Support for the PPPoE client Support for the IPsec VPN Support for FTP ALG / DNS ALG
Management and maintenance	Support through Telnet, TFTP management Support for Web management Wireless marketing: Support for WM C/MCP Support for fault detection and alarm Support information statistics and log

Ordering information

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