



DIR-BE1800

BE18000 Wi-Fi 7 Tri-Band Mesh Router with Voice

Powered by Wi-Fi 7 tri-band mesh technology delivering combined speeds up to 18Gbps, this router is engineered for the most demanding connected homes. A multi-core processor and advanced security ensure stable performance across dozens of simultaneous devices, while 10G wired ports, true whole-home mesh coverage, and built-in VoIP make it a true all-in-one networking hub — ready for 8K streaming, competitive gaming, and everything in between.

Features

- **Next-Gen Wi-Fi 7** —Blazing-Fast Tri-Band Wi-Fi Speeds up to 18Gbps for Seamless Streaming and Gaming
- **Powerful Quad-Core Performance** — Handles heavy multi-device loads with ease
- **Whole-Home Mesh Coverage** — Seamless roaming, no dead zones
- **10G Ethernet Ports** — 10G WAN + 10G LAN + 1G LAN High-speed wired connections for demanding setups
- **Advanced VoIP Telephony Integration** —Integrated VoIP calling for a simpler, all-in-one home network
- **Enhanced Security & Easy Management** — Robust protection with simple setup and control

Technical Specifications			
General			
Chipset	BCM6766+BCM967263+2*AN8831X +LE9643		
CPU Frequency	Quad-core, 2.0 GHz, ARM-A7		
Memory	1GB DDR		
Flash	256MB Nand Flash		
Device Interfaces	• 1 x 10G RJ45 WAN • 1 x 10G RJ45 LAN + 1 x 1G RJ45 LAN • 1 x USB 3.2 • 1 x RJ11 FXS Port • 1 x WPS Button • 1 x Reset Button • 1 x Power Jack • 1 x Power Button		
Wi-Fi	• 2T2R 2GHz 802.11b/g/n/ac/ax/be, 688Mbps • 4T4R 5GHz 802.11a/n/ac/ax/be, 5760Mbps • 4T4R 6GHz 802.11a/n/ac/ax/be, 11520Mbps		
Wi-Fi Antenna	• 2 x 3dBi Internal 2.4G antenna • 4 x 3dBi Internal 5.8G antenna • 4 x 3dBi Internal 6G antenna		
Wi-Fi Features			
Standards	• 802.11a/b/g/n/ac/ax/be • 2.4G: 2.4~2.4835GHz 5G: 5.150~5.825GHZ 6G: 5.925GHz~7.125GHz		
Modulation schemes	• OFDM = BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM • DSSS = DBPSK, DQPSK, CCK		
Transfer Rate	• EHT20: up to 1612Mbps 2.4G+5G+6G • EHT40: up to 3224Mbps 2.4G+5G+6G • EHT80: up to 5760Mbps 5G + 6G • EHT160: up to 11520Mbps 5G + 6G • EHT320: up to 11520Mbps 6G		
Software Features			
Wireless Features: • Air Time Fair • Auto Channel • Band Steering • Easy Mesh • WPA3/SAE Security • Embedded AP with 8 SSIDs on each Radio • Separate authentication for each SSID	Wireless main Protocols: • IEEE 802.11a/b/g/n/ac/ax/be • IEEE 802.11h(dfs) • IEEE 802.11e(wmm) • IEEE 802.11k/v/r	Voice Features: • VOIP(optional) • SIP Proxy(optional) • Codec: G711& G722& G723 & G729 (optional) • Fax T.38 &V.17&V.34&V.152 (optional) • VAD (Voice Activity Detection) (optional) • Silence suppression(optional) • CNG (Comfort Noise Generation) (optional) • Supports G.168 (echo cancellation) (optional)	Voice main Protocols: • RFC3261 (optional) • RFC2833 & inbound(optional) • RFC4028 (optional) • RFC3711 (optional) • RFC3550 (optional) • RFC3960 (optional) • RFC5009 (optional) • RFC 3711 (optional) • RFC 4568 (optional)

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Other Features: • QoS Flow Control • Samba/DLNA/FTP • DMZ and Port forwarding(Virtual server) • SPI Firewall, Denial of Service (DoS) protection • IP/Port/MAC filtering and URL filter • SNTP Date/time update from Internet Time Server • Diagnostics(Ping/TraceRoute) • Logs and statistics • Automatic timing restart		Management: • WEB GUI • Command Line Tools(telnet/ssh) • TR-069 Remote Management • TR181/TR104/TR140/TR143/TR157(periodic statistics) • SNMPv2 • UPNP	
Environment Requirement			
Dimension	145.5 x 71 x 203 mm		
Temperature	• Operating: 0°C~48°C • Storage: -30°C ~ 70°C		
Operating Humidity	5%~95% (typical)		
Power Supply	12V/2.5A		
Regulation Compliance	CE		
Safety Regulations	UL		
Green Standard	RoHs		