

BDCOM WBR65G-300

Overview

BDCOM WBR65G-300 is a high-performance backbone wireless bridge designed for P2P/P2MP connectivity. It complies with IEEE 802.11 Wi-Fi standards and equipped with a built-in dual-polarized high-gain antenna, it delivers reliable wireless bridging over ultra-long distances.

WBR65G-300 features a watchdog mechanism for automatic recovery during network disruptions, along with remote management capabilities. Administrators can monitor real-time status, perform firmware upgrades, and initiate reboots from anywhere.

Ideal for long-range wireless backhaul and point-to-multipoint deployments, WBR65G-300 combines high throughput, carrier-grade reliability with rugged design for harsh outdoor environments.



Key Features

- Support WiFi6 standard and 5GHz band
- Up to 2402Mbps speed and 3 Gigabit Ethernet ports (include 1*GSFP)
- External parabolic antenna and more than 30KM distance
- Aluminum alloy enclosure and IP67 protection

H/W Specification

Model	BDCOM WBR65G-300				
Chipset	IPQ5018+QCN6102+QCA8337				
Flash	SPI NOR 16MB + NAND 128MB				
DDR	DDR3 512MB				
WiFi Frequency	5.150~5.850GHz				
WiFi Protocol	802.11 a/n/ac/ax				
Max rate	2402Mbps				
Antenna	external 29dBi parabolic antenna				
TX Power	802.11a	54M	22±2dBm	6M	24±2dBm

	802.11n HT20	MCS7	21±2dBm	MCS0	24±2dBm
	802.11n HT40	MCS7	21±2dBm	MCS0	24±2dBm
	802.11ac VHT20	MCS9	21±2dBm	MCS0	24±2dBm
	802.11ac VHT40	MCS9	20±2dBm	MCS0	24±2dBm
	802.11ac VHT80	MCS9	20±2dBm	MCS0	24±2dBm
	802.11ax HE20	MCS11	20±2dBm	MCS0	24±2dBm
	802.11ax HE40	MCS11	20±2dBm	MCS0	24±2dBm
	802.11ax HE80	MCS11	19±2dBm	MCS0	24±2dBm
	802.11ax HE160	MCS11	18±2dBm	MCS0	23±2dBm
Recv Sensitivity	802.11a	54M	-75dBm	6M	-92dBm
	802.11n HT20	MCS7	-73dBm	MCS0	-92dBm
	802.11n HT40	MCS7	-70dBm	MCS0	-90dBm
	802.11ac VHT20	MCS8	-67dBm	MCS0	-88dBm
	802.11ac VHT40	MCS9	-64dBm	MCS0	-88dBm
	802.11ac VHT80	MCS9	-60dBm	MCS0	-88dBm
	802.11ax HE20	MCS11	-62dBm	MCS0	-90dBm
	802.11ax HE40	MCS11	-60dBm	MCS0	-88dBm
	802.11ax HE80	MCS11	-58dBm	MCS0	-86dBm
	802.11ax HE160	MCS11	-54dBm	MCS0	-84dBm
EVM	802.11a 54M: ≤-25 dB 802.11n MCS7: ≤-28 dB 802.11ac MCS9: ≤-32dB 802.11ax MCS11: ≤-35dB				
PPM	±20ppm				
WAN	1*10/100/1000M WAN (SFP) 1*10/100/1000M WAN (POE)				
LAN	1*10/100/1000M LAN				
Power	PoE 48V or DC 12~24V Max≤18W				
Reset	Press 10 seconds for Factory resetting				
button	Set Master / Slave mode				
Indicators	SYS, WAN, LAN, WIFI, Signal*8				
Dimension	218×243×64mm (anrenna: Φ440mm)				
Weight	4.0Kg (Total)				
Temperature	Working: -30~55°C				

	Storage: -40~70°C
Humidity	5~95% (Non-Condensing)
Protection	IP65
ESD	Air: ±15KV Touch: ±8KV
Electrical Surge	Common Mode: 4KV Differential Mode: 2KV

S/W Specification

Operating mode	<ul style="list-style-type: none"> · AP mode · Relay mode
Wireless	<ul style="list-style-type: none"> · Multi SSID (Max: 4) and Hidden SSID · Transmit Power Setting · Scheduled WiFi On/Off
Wireless Safety	<ul style="list-style-type: none"> · WPA/WPA-PSK · WPA2/WPA2-PSK · MAC ACL with Whitelist · Max client limit (Max: 64) · User isolation
Wireless QoS	<ul style="list-style-type: none"> · TDMA technology (4 queue priority)
IP Networks	<ul style="list-style-type: none"> · Static IP, DHCP client · 802.1Q VLAN · IPv4 & IPv6 · DHCPd, SNMP, NTP client
Management	<ul style="list-style-type: none"> · SSH, Telnet · Http/Https · SNMP read · Route tracking · Ping watchdog

Antenna Specification

Working Frequency	5180~5850 MHz
Gain	29dBi
Polarization mode	Vertical/horizontal dual polarization
VSWR	<1.8
Beam angle	Horizon: 6° / Vertical: 66°