BDCOM WBR45F-50

Overview



BDCOM WBR45F-50 is a high-performance outdoor CPE 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 long distances.

WBR45F-50 features a watchdog mechanism for automatic recovery dring 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, WBR45F-50 combines high throughput, carrier-grade reliability with efficient maintenance for harsh outdoor environments.

Key Features

· Support WiFi4 standard and 5GHz band

· Up to 300Mbps speed and 2 FastEthernet ports

· More than 5KM distance

· Support Narrowband technology (5M/10Mbps)

· Support Spread Spectrum technology (4.9-6.1GHz)

H/W Specification

Model	BDCOM WBR45F-50
Chipset	AR9344
Flash	SPI NOR 16MB
DDR	DDR2 64MB
WiFi Frequency	5.150~5.850GHz
WiFi Protocol	802.11 a/n
Max rate	300Mbps
Antenna	Internal 15dBi directional panel antenna

TX Power	802.11a	54M	22±2dBm	6M	23±2dBm
	802.11n HT20	MCS7	21±2dBm	MCS0	23±2dBm
	802.11n HT40	MCS7	20±2dBm	MCS0	22±2dBm
Recv Sensitivity	802.11a	54M	-70dBm	6M	-83dBm
	802.11n HT20	MCS7	-67dBm	MCS0	-83dBm
	802.11n HT40	MCS7	-64dBm	MCS0	-83dBm
EVM	802.11a 54M: ≤-25 dB 802.11n MCS7: ≤-28 dB				
PPM	±20ppm				
WAN	1*10/100M WAN				
LAN	1*10/100M LAN				
Power	PoE 24V or DC 12~24V Max≤10W				
Reset	Press 10 seconds for Factory reseting				
button	Set Master / Slave mode				
Indicators	SYS, WAN, LAN, WIFI, Signal*4				
Dimension	245×83×43mm				
Weight	380g				
Temperature	Working: -30~55°C Storage: -40~70°C				
Humidity	5~95% (Non-Condensing)				
Protection	IP65				
ESD	Air: ±8KV Touch: ±6KV				
Electrical Surge	Common Mode: 2KV Differential Mode: 1KV				

S/W Specification

Operating mode	· AP mode · Site relay
Wireless	· Intelligent dynamic polling · Auto channel selection · Auto modulation mode selection · Auto transmission power control (ATPC)
Wireless Safety	· WPA/WPA-PSK · WPA2/WPA2-PSK

	· MAC ACL with Whitelist · Max client limit (Max: 64) · User isolation
Wireless QoS	· TDMA technology (4 queue priority)
IP Networks	· Static IP, DHCP client · 802.1Q VLAN · IPv4 & IPv6 · DHCPd, SNMP, NTP client
Management	· SSH, Telnet · Http/Https · SNMP read · Route tracking · Ping watchdog

Antenna Specification

Working Frequency	5180~5850 MHz
Gain	15dBi
Polarization mode	Vertical/horizontal dual polarization
VSWR	<1.8
Beam angle	Horizon: 30° / Vertical: 30°