BDCOM WBR45F-10

Overview



BDCOM WBR45F-10 is a high-efficient 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-10 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-10 combines high throughput, carrier-grade reliability with efficient maintenance for harsh outdoor environments.

Key Features

· Support WiFi4 standard

· Support 2.4GHz band

· Up to 300Mbps speed

· 2 Fast Ethernet ports

· More than 1KM distance

H/W Specification

Model	BDCOM WBR45F-10
Chipset	MT7628DAN
Flash	SPI NOR 8MB
DDR	DDR2 64MB
WiFi Frequency	2.412~2.484 GHz
WiFi Protocol	802.11 b/g/n
Max rate	300Mbps
Antenna	Internal 8dBi directional panel antenna (2.4GHz)

TX Power	802.11b	11M	19±2dBm	1M	20±2dBm
	802.11g	54M	17±2dBm	6M	19±2dBm
	802.11n HT20	MCS7	16±2dBm	MCS0	18±2dBm
	802.11n HT40	MCS7	16±2dBm	MCS0	18±2dBm
Recv Sensitivity	802.11b	11M	-85dBm	1M	-94dBm
	802.11g	54M	-73dBm	6M	-90dBm
	802.11n HT20	MCS7	-71dBm	MCS0	-89dBm
	802.11n HT40	MCS7	-68dBm	MCS0	-86dBm
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 12V Max≤3W				
Reset	Press 1 seconds for Pairing Press 10 seconds for Factory reseting				
button	Set Master / Slave mode				
Indicators	SYS, WAN, LAN, WIFI, Signal*4				
Dimension	168×86×43mm				
Weight	180g				
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 · Relay mode
Wireless	· Multi SSID (Max: 4) and Hidden SSID · Transmit Power Setting

	· Scheduled WiFi On/Off
Wireless Safety	· WPA/WPA-PSK · WPA2/WPA2-PSK · MAC ACL with Whitelist · Max client limit (Max: 64) · User isolation
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	2412~2484 MHz
Gain	8dBi
Polarization mode	Vertical/horizontal dual polarization
VSWR	<1.8
Beam angle	Horizon: 60° / Vertical: 60°