

802.11b/g/n CPE 12dBi Double Patch Antenna CPE-2450-12-01 (2T/2R)



Features:

- Operates on 2.4 GHz frequency band including 11n mode 2T2R MIMO technology for enhanced throughput up to 300Mbps.
- Backward compatible with legacy IEEE 802.11g, 802.11b (2.4GHz) standards
- High power with integrated 12dBi antenna for extended coverage.
- Configuration and management operated via Web browser with password protected access.
- Firmware upgrade via HTTP.
- Supports Gateway, Bridge, WISP mode for wireless networks.
- Supports 64/128-bit WEP, WPA (TKIP with IEEE 802.1x), WPA2 (AES with IEEE 802.1x)
- Support NAT, SPI (Stateful Packet Inspection) for advanced firewall features
- Compliant with IEEE 802.3 and IEEE 802.3u 10/100 Mbps
- Supports WMM function to meet the multimedia data bandwidth requirement
- Power supply by 12V, 1.25A PoE DC injector over Ethernet
- Supports multiple ESSIDs with individual security settings
- Multiple ESSIDs support VLAN tagging



Specification

Model Name	CPE-2450-12-01
Ethernet Connection	2 RJ45 10/100 Mbps data port
Standard	IEEE 802.1d (Spanning Tree Protocol) IEEE 802.11b (11 Mbps Wireless LAN) IEEE 802.11g (54 Mbps Wireless LAN) IEEE 802.11n Draft 2.0 (300 Mbps Wireless LAN) IEEE 802.1x (Network Access Control) IEEE 802.3 (10Base-T Ethernet) IEEE 802.3u (100Base-TX Fast Ethernet)
Operation Modes	Gateway mode Bridge mode WISP mode
PoE Power Adapter	12V/DC@1.25A/1.5A
External PoE Injector	IEEE 802.3 (Ethernet)
Mounting	Hose Clamp
Enclosure	WeatherProof Enclosure
Integrated Antenna	Two 12dBi Panel Antenna
Radio	IEEE 802.11b/g/n
Temperature	0 - 50°C
Humidity	10 - 95% RH, non-condensing
Radome Material	ABS, UV resistant
Dimension	259 x 215 x 98 mm
Lighting Protection	PoE surge protector (option)
Warranty	1 Year
Manual	Manual CD
Frequency Range	2.400 GHz - 2.483 GHz
Modulation technologies	802.11b: Direct sequence Spread Spectrum (DSSS): DBPSK, DQPSK, CCK 802.11g: Orthogonal Frequency Division Multiplexing (OFDM): BPSK, QPSK, 16QAM, 64QAM 802.11n: Orthogonal Frequency Division Multiplexing (OFDM): BPSK, QPSK, 16QAM, 64QAM
Security	WEP encryption (64/128 bit) WPA TKIP WPA2 AES WPA2 mixed WPA RADIUS 802.1x Authentication Internal MD5/PEAP RADIUS server Client access control through media access control (MAC) filter



Data Rate	IEEE 802.11b (11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps)
	IEEE 802.11g (54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps)
	IEEE 802.11n (MCS0-15: up to 300 Mbps)
Transmit Power	OFDM: 20 dBm +/- 1.5 dBm (300 Mbps, 40 mW max.)
	OFDM: 20 dBm +/- 1.5 dBm (54 Mbps, 40 mW max.)
	CCK: 25 dBm +/- 1 dBm (11 Mbps, 63 mW max.)
Receiver Sensitivity	11n (300 Mbps) MCS0-15: -73 dBm;
	11g (54 Mbps) OFDM: -73 dBm
	11b (11 Mbps) CCK: -91 dBm
Dual 12dBi Antenna spec	
Frequency Range	2400 ~ 2500 MHz
Gain	11n-g / 12dBi * 2
VSWR	2.0 : 1 Max.
Impedance	50 Ohms
Polarization	Linear Vertical
HPBW/ Horizontal	25
HPBW/ Vertical	25
Front Back Ratio	12dB
Power Handling	2 Watts (CW)
Survival Wind Speed	216 Km/ Hr

Package:

- Wireless CPE
- User manual on CD, quick install guide
- Power adapter 12V 1.25A
- POE DC Injector
- Mounting kit

Safety/Quality Approvals:

- CE/FCC

RF Castle Electronics Co., Ltd.

NO.151, Sec 3, Haidian RD., Annan District, Tainan City 70966, Taiwan, R.O.C.

TEL: + 886-6-2475285 FAX : + 886-6-2475282 E-mail: sales@rfcastle.com Website: www.rfcastle.com



Plane field Patterns

