HIGH-DENSITY DUAL BAND BASE SECTOR ANTENNA

WiBOX SA MDBC245-30-12X

WiBOX SA MDBC245-30-12X is dual band concurrent (DBC) (2.4 and 5 GHz) X (slant) polarity MIMO 2x2 panel antenna. It can operate at two frequencies simultaneously, at 2.4 GHz and at 5 GHz. According to medium gain, it can be used on short and medium distances, for example for hotspots in schools, stadiums, offices or some public places. It can work also with mobile devices. It can work indoor and outdoor (IP67) as well. Wide frequency band (2.4-2.5 GHz & 5.1-5.9 GHz) allows to easily find suitable frequency for the operation. The antenna comes with No. 2 RP SMA plug connectors (it could be also with RP TNC plug, MMCX, u.FL or Nf outside connectors), and it’s designed for work in concurrent dual band technology, which means that MDBC245-30-12X radiates simultaneously at both operating frequencies using only one single connector for 2.4 and 5 GHz signals. It’s predicted mainly for special access points working in the systems where two bands (frequencies) are diplexed for one antenna connector, from the companies as Cisco, Aruba Networks, Huawei, Xirrus and other. The antenna is integrated with the top quality WiBOX Medium box system.

Electrical specification

- Frequency: 2.4 - 2.5 GHz, 5.1 - 5.9 GHz
- Gain: 12 dBi, 12 dBi
- VSWR: < 2.00, < 2.00
- Beamwidth: 30°/30° +/- 5°, 30°/30° +/- 5°
- Polarization: X, X
- Cross-Polar Isolation: > 25 dB, > 25 dB
- Front-to-Back: > 30 dB, > 25 dB
- Impedance: 50 Ω
- Max Input Power: 50 W
- Lighting Protection: No
- DC Ground: Yes

Mechanic specification

- Dimensions: 27.2 x 27.6 x 9.6 cm, 10.71 x 10.87 x 3.78 inch
- Weight: 1.6 kg
- Connector: RJ45 & 2xSMA
- Material: ABS
- Waterproof level: IP67
- Operating temperature: from -40°C to 80°C, from -40°F to 176°F
- Wind resistance: 70km/h

Mounting Kit

- Dimensions: 9.9 x 10.5 x 14.8 cm, 3.9 x 4.13 x 5.83 inch
- Regulation Range: +/- 30°
- Weight: 0.67 kg
- Mast Dimensions Range: 26 - 65 mm
- Material: Polyamide with fiberglass + galvanized steel U-Bolts

Features

- Gain for the frequency of 2400 - 2500 MHz 2x 12 dBi
- Polarization X for the frequency of 2400 - 2500 MHz
- Gain for the frequency of 5100 - 5900 MHz 2x 12 dBi
- Polarization X for the frequency of 5100 - 5900 MHz
- 2 x Connector SMA
- Big, ergonomic and voluminous WiBOX Medium enclosure for radio equipment installation
- Outdoor Waterproof Enclosure WiBOX Medium
- Designed and resistant for any weather conditions
- RA45 Waterproof System
- Grounding system protecting against lighting - DC Ground
- 36 Warranty Months

Systems

- LTE band - 40, 41
- WLAN - 2.4 GHz, 5 GHz
- WiMAX - 2.3 GHz, 2.5 GHz, 5 GHz
- RFID - 2400 - 2483 MHz, 5725 - 5875 MHz
- Bluetooth - 2400-2483 MHz
- ISM - 2400-2483 MHz, 5725-5875 MHz

Applications

- Stadiums, Public Places
- Hotspot
- PtP connections
- PtM Connections
- System Integration

Compatible with

- Ruckus Wireless - ZoneFlex 7372-E
- Aruba Networks - AP-204, IAP-204

Plots