



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.** 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.

ROHS



Electrical specification

| | |
|-------------------------------|--|
| Frequency | <ul style="list-style-type: none"> 2.4 - 2.5 GHz 5.1 - 5.9 GHz |
| Gain | <ul style="list-style-type: none"> 12 dBi 12 dBi |
| VSWR | <ul style="list-style-type: none"> <2.00 <2.00 |
| Beamwidth | <ul style="list-style-type: none"> 30°/30° +/- 5° 30°/30° +/- 5° |
| Polarization | <ul style="list-style-type: none"> X X |
| Cross-Polar Isolation | |
| Front-to-Back | <ul style="list-style-type: none"> > 25 dB > 25 dB |
| Separation between Connectors | <ul style="list-style-type: none"> > 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 | 0.87 kg |
| Mast Dimensions Range | 25 - 65mm |
| Material | Polyamide with fiberglass + galvanized steel U-Bolts |

Plots

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
- › RJ45 Waterproof System
- › Grounding system protecting against lightning - DC Ground
- › 36 Warranty Months

Systems

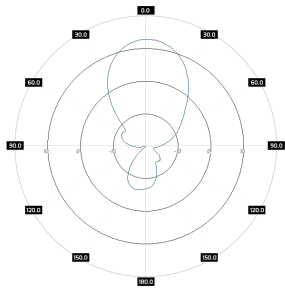
- › LTE band - 40, 41
- › WLAN - 2.4 GHz, 5 GHz
- › WiMAX - 2.3 GHz, 2.5 GHz, 5 GHz
- › RFID - 2400 - 2483 MHz, 5725 - 5875 MHz
- › Bluetooth - 2400-2483 MHz
- › ISM - 2400-2483 MHz, 5725-5875 MHz

Applications

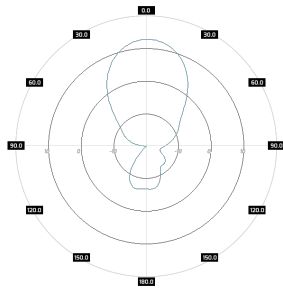
- › Stadiums, Public Places
- › Hotspot
- › PtP connections
- › PtM Connections
- › System Integration

Compatible with

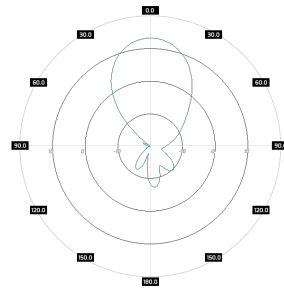
- › **Ruckus Wireless** - ZoneFlex 7372-E
- › **Aruba Networks** - AP-204, IAP-204



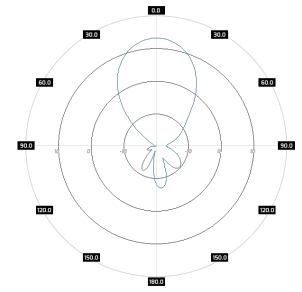
SA MDBC245-30-12X
Slant-pol, port 1, azimuth, 2.45GHz



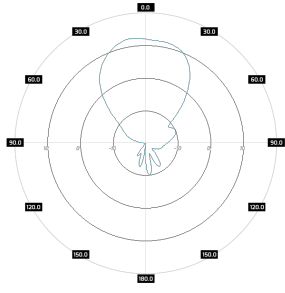
SA MDBC245-30-12X
Slant-pol, port 1, elev, 2.45GHz



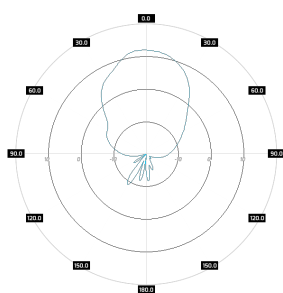
SA MDBC245-30-12X
Slant-pol, port 2, azimuth, 2.45GHz



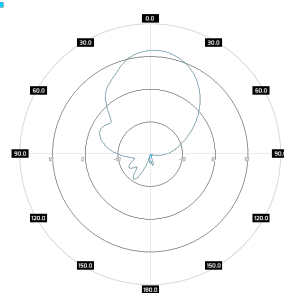
SA MDBC245-30-12X
Slant-pol, port 2, elev, 2.45GHz



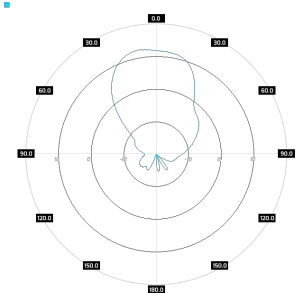
SA MDBC245-30-12X
Slant-pol, port 1, azimuth, 5.5GHz



SA MDBC245-30-12X
Slant-pol, port 1, elev, 5.5GHz



SA MDBC245-30-12X
Slant-pol, port 2 azimuth, 5.5GHz



SA MDBC245-30-12X
Slant-pol, port 2, elev, 5.5GHz