



## 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"> <li>2.4 - 2.5 GHz</li> <li>5.1 - 5.9 GHz</li> </ul>
Gain	<ul style="list-style-type: none"> <li>12 dBi</li> <li>12 dBi</li> </ul>
VSWR	<ul style="list-style-type: none"> <li>&lt;2.00</li> <li>&lt;2.00</li> </ul>
Beamwidth	<ul style="list-style-type: none"> <li>30°/30° +/- 5°</li> <li>30°/30° +/- 5°</li> </ul>
Polarization	<ul style="list-style-type: none"> <li>X</li> <li>X</li> </ul>
Cross-Polar Isolation	
Front-to-Back	<ul style="list-style-type: none"> <li>&gt; 25 dB</li> <li>&gt; 25 dB</li> </ul>
Separation between Connectors	<ul style="list-style-type: none"> <li>&gt; 30 dB</li> <li>&gt; 25 dB</li> </ul>
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

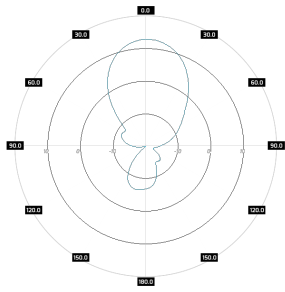
- › LTE band - 40, 41, 46, 47, 53, 252, 255
- › WLAN - 2.4 GHz, 5 GHz
- › WiMAX - 2.3 GHz, 2.5 GHz, 5 GHz
- › RFID - 2400 - 2483 MHz, 5725 - 5875 MHz
- › Bluetooth - 2400-2483 MHz
- › ISM - 2400-2483 MHz, 5725-5875 MHz

### Applications

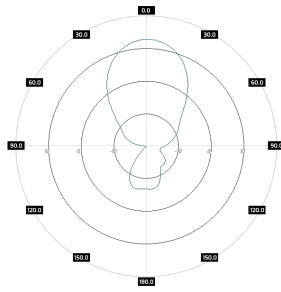
- › Stadiums, Public Places
- › Hotspot
- › PtP connections
- › PtM Connections
- › System Integration

### Compatible with

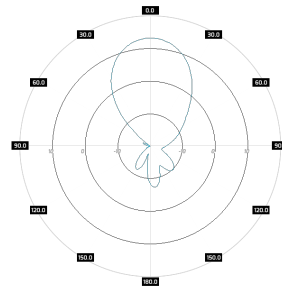
- › **Ruckus Wireless** - ZoneFlex 7372-E
- › **Aruba Networks** - AP-204, IAP-204



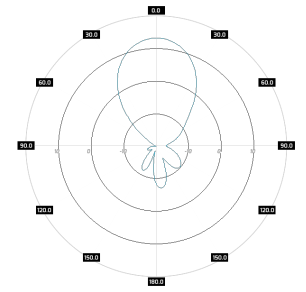
SA MDBC245-30-12X  
Slant-pol, port 1, azimuth, 2.45GHz



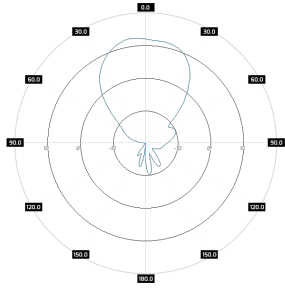
SA MDBC245-30-12X  
Slant-pol, port 1, elev, 2.45GHz



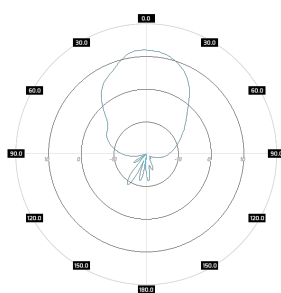
SA MDBC245-30-12X  
Slant-pol, port 2, azimuth, 2.45GHz



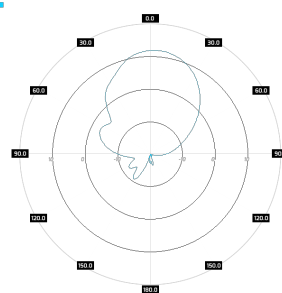
SA MDBC245-30-12X  
Slant-pol, port 2, elev, 2.45GHz



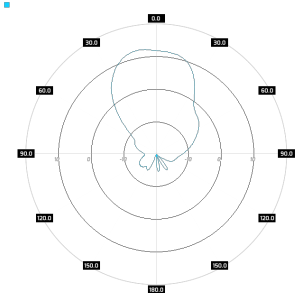
SA MDBC245-30-12X  
Slant-pol, port 1, azimuth, 5.5GHz



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