



## HIGH-DENSITY DUAL BAND BASE SECTOR ANTENNA

# WiBOX SA MDBC245-30-12HV

**WiBOX SA MDBC245-30-12HV is concurrent dual band (DBC) (2,4 and 5 GHz) H&V 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 SA MDBC245-30-12HV 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;1.50, max &lt; 2.00</li> <li>&lt;1.50, max &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>H&amp;V</li> <li>H&amp;V</li> </ul>
Cross-Polar Isolation	
Front-to-Back	<ul style="list-style-type: none"> <li>&gt; 20 dB</li> <li>&gt; 20 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 H&V for the frequency of 2400 - 2500 MHz
- > Gain for the frequency of 5100 - 5900 MHz 2x 12 dBi
- > Polarization H&V 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

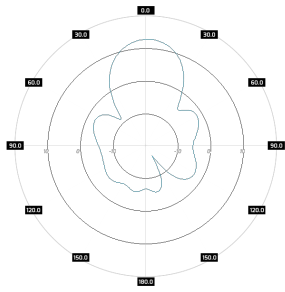
- > LTE band - 40, 41
- > WLAN - 2.4 GHz, 5 GHz
- > WiMAX - 2.3 GHz, 2.5 GHz, 5 GHz
- > RFID - 2400 - 2483 MHz, 5725 - 5875 MHz
- > Bluetooth - 2400-2483 MHz
- > ISM - 2400-2483 MHz, 5725-5875 MHz

### Applications

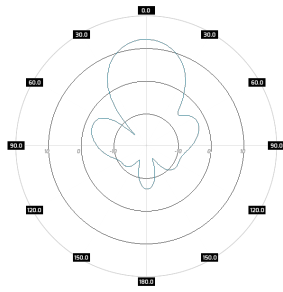
- > Stadiums, Public Places
- > Hotspot
- > PtP connections
- > PtM Connections
- > System Integration

### Compatible with

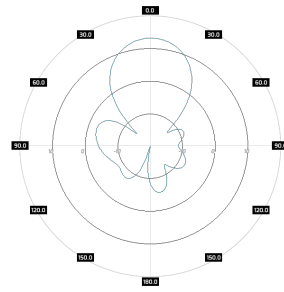
- > **Ruckus Wireless** - ZoneFlex 7372-E
- > **Aruba Networks** - AP-204, IAP-204



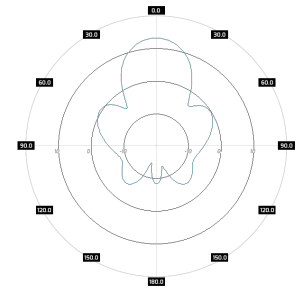
SA MDBC245-30-12HV  
H-pol, azimuth, 2.45GHz



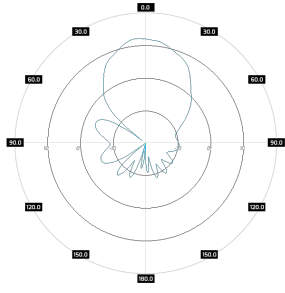
SA MDBC245-30-12HV  
H-pol, elev, 2.45GHz



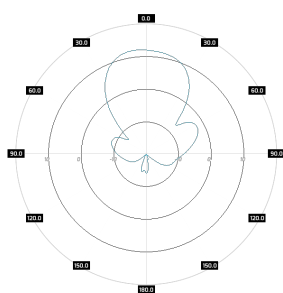
SA MDBC245-30-12HV  
V-pol, azimuth, 2.45GHz



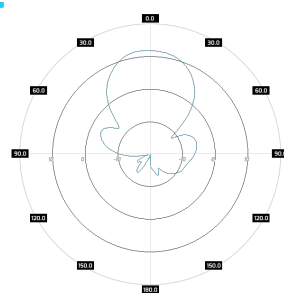
SA MDBC245-30-12HV  
V-pol, elev, 2.45GHz



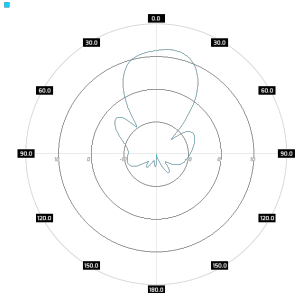
SA MDBC245-30-12HV  
H-pol, azimuth, 5.5GHz



SA MDBC245-30-12HV  
H-pol, elev, 5.5GHz



SA MDBC245-30-12HV  
V-pol, azimuth, 5.5GHz



SA MDBC245-30-12HV  
V-pol, elev, 5.5GHz