



## HIGH-DENSITY DUAL BAND BASE SECTOR ANTENNA

# WiBOX SA MDBC245-65-9X

**WiBOX SA MDBC245-65-9X 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 & 4.9-6.0 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, MMCX or u.FL connectors), and it's designed for work in **concurrent dual band technology**, which means that **SA MDBC245-65-9X radiates simultaneously at both operating frequencies using only one single connector for 2.4 and 5 GHz signal**. It's predicted for special Access Points working in the systems where **two bands (frequencies) are diplexed in one antenna connector**, from the companies as **Cisco, Aruba Networks, Huawei, Xirrus** and others. The antenna is integrated with the top quality **WiBOX Medium** box system.







### Electrical specification

|                               |  |
|-------------------------------|--|
| Frequency                     | <ul style="list-style-type: none"> <li>☒ 2.4 - 2.5 GHz</li> <li>☒ 4.9 - 6 GHz</li> </ul>     |
| Gain                          | <ul style="list-style-type: none"> <li>☒ 8 dBi</li> <li>☒ 9 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>☒ 65°/65° +/- 5°</li> <li>☒ 60°/60° +/- 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; 17 dB</li> <li>☒ &gt; 22 dB</li> </ul>         |
| Separation between Connectors | <ul style="list-style-type: none"> <li>☒ &gt; 30 dB</li> <li>☒ &gt; 47 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<br>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<br>from -40°F to 176°F         |
| Wind resistance       | 70km/h  |

### Mounting Kit

|                       |   |
|-----------------------|---|
| Dimensions            | 9.9 x 10.5 x 14.8 cm<br>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 +<br>galvanized steel U-Bolts |

### Plots

### Features

- › Gain for the frequency of 2400 - 2500 MHz 2x 8 dBi
- › Polarization X for the frequency of 2400 - 2500 MHz
- › Gain for the frequency of 4900 - 6000 MHz 2x 9 dBi
- › Polarization X for the frequency of 4900 - 6000 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

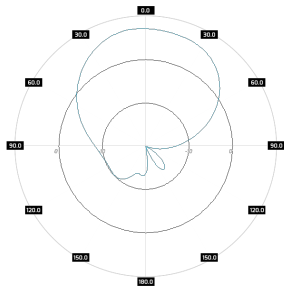
- › LTE band - 40, 41, 46, 47, 53, 252, 255
- › WLAN - 2.4 GHz, 5 GHz
- › WiMAX - 2.3 GHz, 2.5 GHz, 5 GHz
- › RFID - 2400 - 2483 MHz, 5725 - 5875 MHz
- › Bluetooth - 2400-2483 MHz
- › ISM - 2400-2483 MHz, 5725-5875 MHz

### Applications

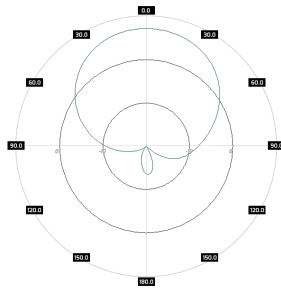
- › Stadiums, Public Places
- › Hotspot
- › PtP connections
- › PtM Connections
- › System Integration

### Compatible with

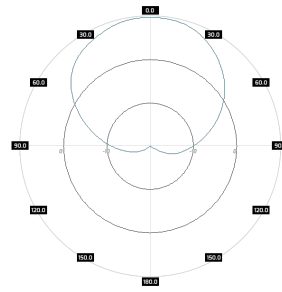
- › **Ruckus Wireless** - ZoneFlex 7372-E
- › **Aruba Networks** - AP-204, IAP-204, AP-92



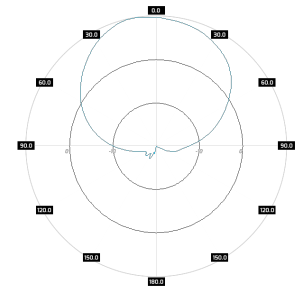
SA MDBC-245-65-6X  
Slant-pol. azimuth, 2.4GHz



SA MDBC245-65-9X  
Slan-pol, elev, 2.4GHz



SA MDBC245-65-9X  
Slant-pol, azimuth, 5.5GHz



SA MDBC245-65-9X  
Slant-pol, elev, 5.5GHz