



## HIGH-DENSITY DUAL BAND BASE SECTOR ANTENNA

# WiBOX SA M3DBC245-65-9X

**WiBOX SA M3DBC245-65-9X is dual band concurrent (DBC) (2,4 and 5 GHz) X (slant) polarity MIMO 3x3 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. 3 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 M3DBC245-65-9X 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.

ROHS



### Electrical specification

|                               |  |
|-------------------------------|--|
| Frequency                     | 2.4 - 2.5 GHz<br>4.9 - 6 GHz           |
| Gain                          | 8 dBi<br>9 dBi                         |
| VSWR                          | <1.50, max < 2.00<br><1.50, max < 2.00 |
| Beamwidth                     | 65°/65° +/- 5°<br>60°/60° +/- 5°       |
| Polarization                  | X, H&V<br>X                            |
| Cross-Polar Isolation         |  |
| Front-to-Back                 | > 17 dB<br>> 22 dB                     |
| Separation between Connectors | > 30 dB<br>> 47 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<br>10.71 x 10.87 x 3.78 inch |
| Weight                | 1.6 kg  |
| Connector             | RJ45 & 3xSMA                                      |
| 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   |
| Mount Dimensions Range | 25 - 65mm   |
| Material               | Polyamide with fiberglass +<br>galvanized steel U-Bolts |

### Plots

### Features

- Gain for the frequency of 2400 - 2500 MHz 3x 8 dBi
- Polarization X, H&V for the frequency of 2400 - 2500 MHz
- Gain for the frequency of 4900 - 6000 MHz 3x 9 dBi
- Polarization X for the frequency of 4900 - 6000 MHz
- 3 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

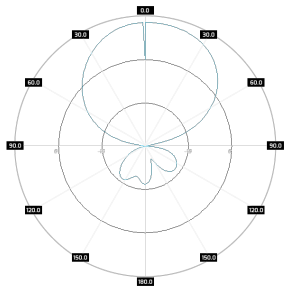
- LTE band - 40, 41, 46, 47, 53, 252, 255
- WLAN - 2.4 GHz, 5 GHz
- WiMAX - 2.3 GHz, 2.5 GHz, 5 GHz
- RFID - 2400 - 2483 MHz, 5725 - 5875 MHz
- Bluetooth - 2400-2483 MHz
- ISM - 2400-2483 MHz, 5725-5875 MHz

### Applications

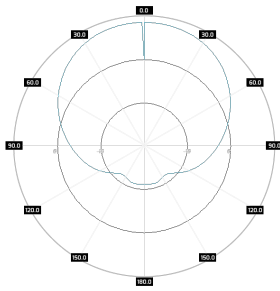
- Stadiums, Public Places
- Hotspot
- PtP connections
- PtM Connections
- System Integration

### Compatible with

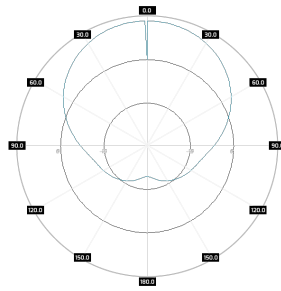
- Ruckus Wireless** - ZoneFlex 7372-E
- Aruba Networks** - AP-114, AP-134, AP-204, IAP-204, AP-92, AP-224, IAP-224, IAP-134, IAP-114
- Huawei** - AP 7110SN-GN, AP 5130DN, AP 6510DN-AGN
- Cisco** - Aironet 1602e, Aironet 1552E, Aironet 1552H



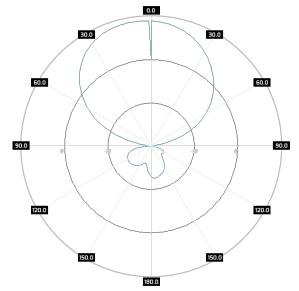
SA M3DBC245-65-9X  
H-pol, azimuth, 2.45GHz



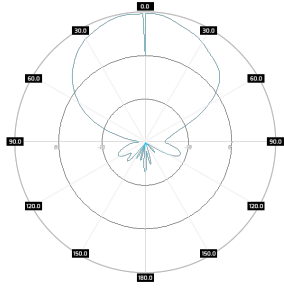
SA M3DBC245-65-9X  
H-pol, elev, 2.45GHz



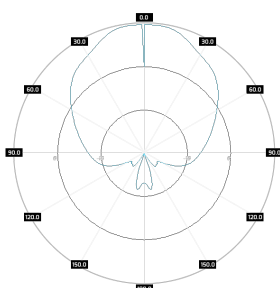
SA M3DBC245-65-9X  
V-pol, azimuth, 2.45GHz



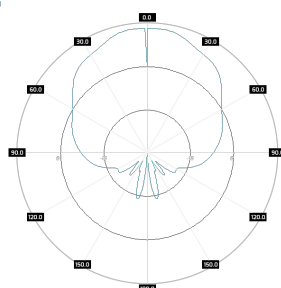
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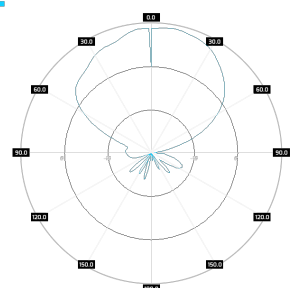
SA M3DBC245-65-9X  
H-pol, azimuth, 5.5GHz



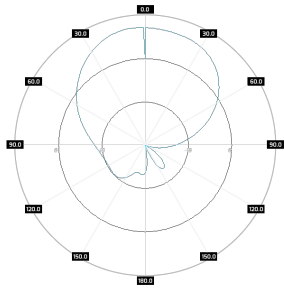
SA M3DBC245-65-9X  
H-pol, elev, 5.5GHz



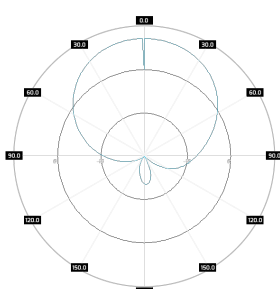
SA M3DBC245-65-9X  
V-pol, azimuth, 5.5GHz



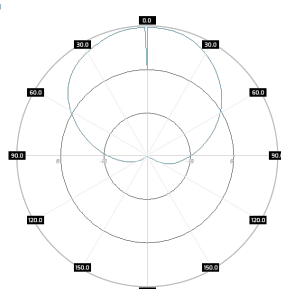
SA M3DBC245-65-9X  
V-pol, elev, 5.5GHz



SA M3DBC245-65-9X  
Slant-pol, azimuth, 2.45GHz



SA M3DBC245-65-9X  
Slant-pol, elev, 2.45GHz



SA M3DBC245-65-9X  
Slant-pol, azimuth, 5.5GHz



SA M3DBC245-65-9X  
Slant-pol, elev, 5.5GHz