



## DUAL BAND BASE SECTOR ANTENNA

# WiBOX SA MDB255-90-14X

**WiBOX SA MDB255-90-14X** is a dual band MIMO 2x2 sector antenna (2.5GHz – X; 5 GHz – X) operating at two frequency bands: 2.35 – 2.65 GHz with 12 dBi gain and 5.1 – 5.85 GHz with 14 dBi gain. The antenna can be used in point-to-multipoint (PMP) topology for covering medium size areas as the **hotspot in schools, halls, stadiums or another public places**. It can work indoor and outdoor (IP 67). It works with the systems of: **WLAN (802.11a/b/g/n/ac), WiMAX, LTE, Bluetooth, ISM, RFID**. The antenna is integrated with the top quality **WiBOX Medium** box system.

ROHS



### Electrical specification

|                               |   |
|-------------------------------|---|
| Frequency                     | <ul style="list-style-type: none"> <li>2.35 - 2.65 GHz</li> <li>5.1 - 5.85 GHz</li> </ul> |
| Gain                          | <ul style="list-style-type: none"> <li>12 dBi</li> <li>14 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°/90°</li> <li>16°/90°</li> </ul>                |
| Polarization                  | <ul style="list-style-type: none"> <li>X</li> <li>X</li> </ul>                            |
| Cross-Polar Isolation         | >20 dB  |
| Front-to-Back                 | <ul style="list-style-type: none"> <li>&gt; 20 dB</li> </ul>                              |
| Separation between Connectors | > 20 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                | 2.5 kg  |
| Connector             | RJ45 & 4xSMA                                      |
| 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 |

### Features

- › Gain for the frequency of 2350 - 2650 MHz 4x 12 dBi
- › Polarization X for the frequency of 2350 - 2650 MHz
- › Gain for the frequency of 5100 - 5850 MHz 4x 14 dBi
- › Polarization X for the frequency of 5100 - 5850 MHz
- › 4 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

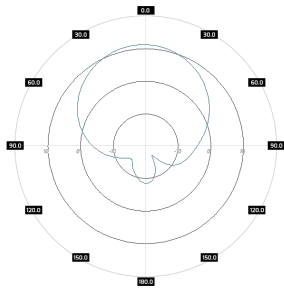
### Systems

- › LTE band - 7, 38, 40, 41, 46, 53, 69, 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

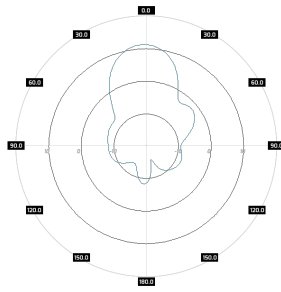
### Applications

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

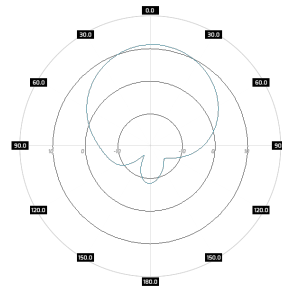
### Plots



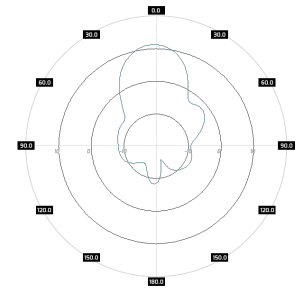
SA MDBC255-90-14X  
2.45GHz, port 1, azimuth



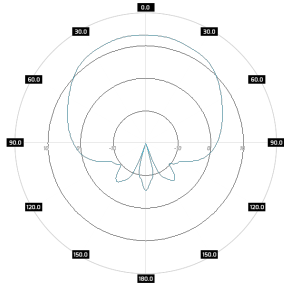
SA MDBC255-90-14X  
2.45GHz, port 1, elev.



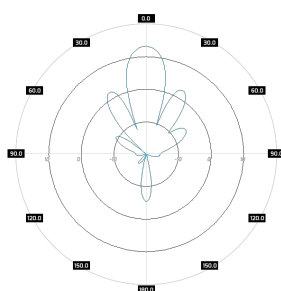
SA MDBC255-90-14X  
2.45GHz, port 2, azimuth



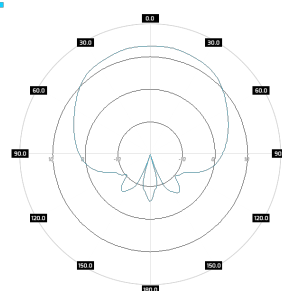
SA MDBC255-90-14X  
2.45GHz, port 2, elev.



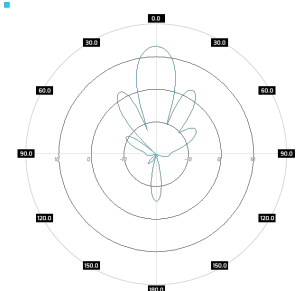
SA MDBC255-90-14X  
5.5GHz, port 1, azimuth



SA MDBC255-90-14X  
5.5GHz, port 1, elev.



SA MDBC255-90-14X  
5.5GHz, port 2, azimuth



SA MDBC255-90-14X  
5.5GHz, port 2, elev.