



## 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 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 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

### 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

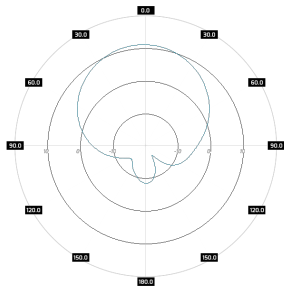
### Systems

- › LTE band - 7, 38, 40, 41
- › 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

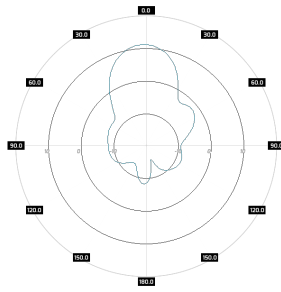
### Applications

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

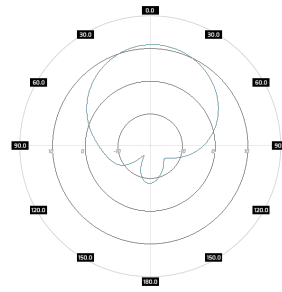
### Plots



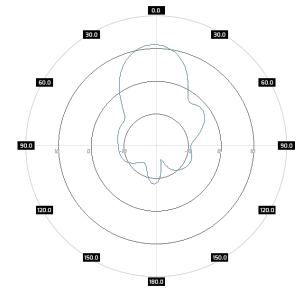
SA MDBC255-90-14X  
2.45GHz, port 1, azimuth



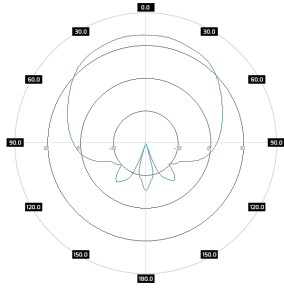
SA MDBC255-90-14X  
2.45GHz, port 1, elev.



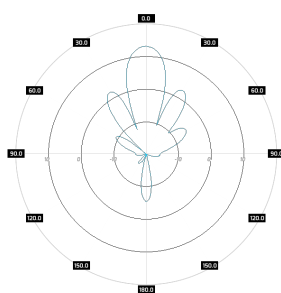
SA MDBC255-90-14X  
2.45GHz, port 2, azimuth



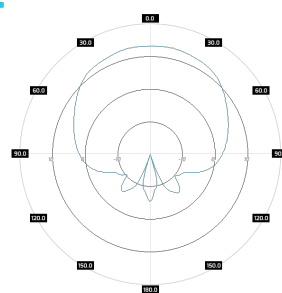
SA MDBC255-90-14X  
2.45GHz, port 2, elev.



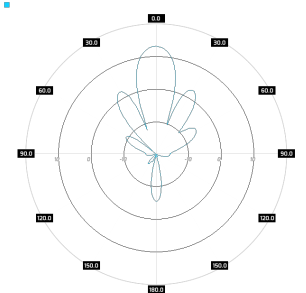
SA MDBC255-90-14X  
5.5GHz, port 1, azimuth



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.