



## DUAL BAND ANTENNA

# WiBOX SA MDB255-90-14HV

**WiBOX SA MDB255-90-14HV** is a dual band MIMO 2x2 sector antenna (2.5GHz - H&V; 5 GHz - H&V) operating at two frequency bands: 2.3 - 2.65 GHz with 12 dBi gain and 5.1 - 5.95 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>2.3 - 2.65 GHz</li> <li>5.1 - 5.95 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>90°/30°</li> <li>90°/16°</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; 20 dB</li> <li>&gt; 20 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 & 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
Max Dimensions Range	25 - 65mm
Material	Polyamide with fiberglass + galvanized steel U-Bolts

### Features

- › Gain for the frequency of 2300 - 2650 MHz 4x 12 dBi
- › Polarization H&V for the frequency of 2300 - 2650 MHz
- › Gain for the frequency of 5100 - 5950 MHz 4x 14 dBi
- › Polarization H&V for the frequency of 5100 - 5950 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, 2305-2360
- › 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

### Compatible with

- › **Aruba Networks** - AP-92
- › **Cisco** - Aironet 1532e
- › **Huawei** - AP 6510DN-AGN, AP 6610DN-AGN