



## DUAL BAND BASE SECTOR ANTENNA

# WiBOX SA MDB255-90-17X

WiBOX SA MDB255-90-17X is a dual band MIMO 2x2 sector antenna (2.5GHz – X; 5 GHz - X) operating at two frequency bands: 2.35 – 2.7 GHz with 15 dBi gain and 5.1 – 5.95 GHz with 17 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 Extra Large box system.



### Electrical specification

Frequency	<ul style="list-style-type: none"> <li>2.4 - 2.7 GHz</li> <li>5 - 6 GHz</li> </ul>
Gain	<ul style="list-style-type: none"> <li>15 dBi</li> <li>17 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>15°/86°</li> <li>8°/80°</li> </ul>
Polarization	<ul style="list-style-type: none"> <li>X</li> <li>X</li> </ul>
Cross-Polar Isolation	25 dB
Front-to-Back	<ul style="list-style-type: none"> <li>&gt; 20 dB</li> <li>&gt; 24 dB</li> </ul>
Separation between Connectors	<ul style="list-style-type: none"> <li>&gt; 25 dB</li> <li>&gt; 22 dB</li> </ul>
Impedance	50 Ω
Max Input Power	50 W
Lighting Protection	No
DC Ground	Yes

### Mechanic specification

Dimensions	29.2 x 48.6 x 10.6 cm 11.5 x 19.13 x 4.17 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 2400 - 2700 MHz 4x 15 dBi
- › Polarization X for the frequency of 2400 - 2700 MHz
- › Gain for the frequency of 5000 - 6000 MHz 4x 17 dBi
- › Polarization X for the frequency of 5000 - 6000 MHz
- › 4 x Connector SMA
- › Big, ergonomic and voluminous **WiBOX Extra Large** enclosure for radio equipment installation
- › Outdoor Waterproof Enclosure **WiBOX Extra Large**
- › Designed and resistant for any weather conditions
- › RJ45 Waterproof System
- › Grounding system protecting against lightning - DC Ground
- › 36 Warranty Months

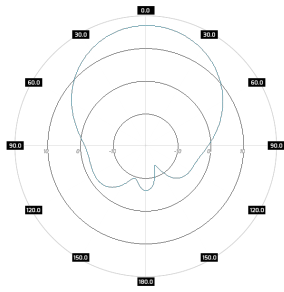
### Systems

- › 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

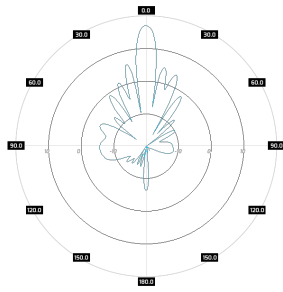
### Applications

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

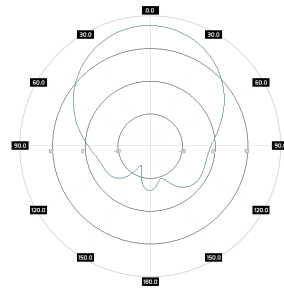
### Plots



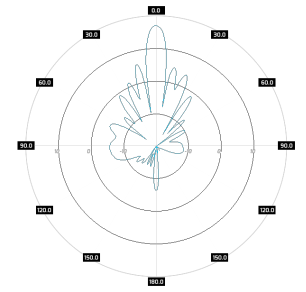
SA M5-90-17X  
Port 1, azimuth



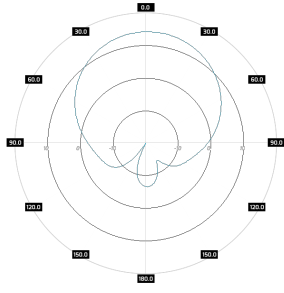
SA M5-90-17X  
Port 1, elev



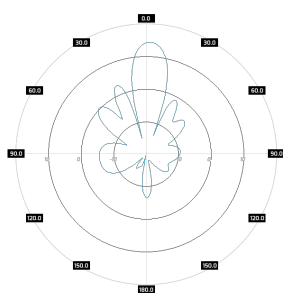
SA M5-90-17X  
Port 2, azimuth



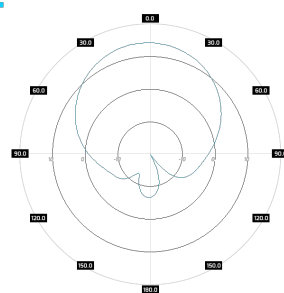
SA M5-90-17X  
Port 2, elev



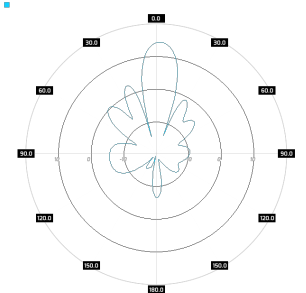
SA M25-90-15X  
Port 1, azimuth



SA M25-90-15X  
Port 2, elev



SA M5-90-17X  
Port 2, azimuth



SA M25-90-15X  
Port 2, elev.