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**
  - 2.4 - 2.7 GHz
  - 5 - 6 GHz
- **Gain**
  - 15 dB
  - 17 dB
- **VSWR**
  - <2.00
  - <2.02
- **Beamwidth**
  - 15°/86°
  - 8°/80°
- **Polarization**
  - X
- **Cross-Polar Isolation**
  - 25 dB
- **Front-to-Back**
  - > 20 dB
  - > 24 dB
- **Separation between Connectors**
  - > 25 dB
  - > 22 dB
- **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 lighting - 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