HIGH-DENSITY DUAL BAND BASE SECTOR ANTENNA

**WiBOX SA MDBC245-120-8V**

Wireless Instruments two element MIMO 2x2 2.4/5 GHz dual-band antenna for Wi-Fi is rugged and high-performance panel for outdoor and indoor applications. **WiBOX SA MDBC245-120-8V** is 2-Element Patch Antenna predicted mainly for high-density installations where high gain and wide beamwidth is required. The system offers relatively high gain with wide horizontal beam and low F/B ratio, which makes it unique solution on the market. The antenna is designed to work with 2.4-GHz/5-GHz Access Points (like Cisco, Aruba, Huawei and others), offers IP67 for whole system and No. 2 of RP-SMA/U.FL/MMCX pigtails located in the installation box. The antenna is integrated with **WiBOX Medium** enclosure by Wireless Instruments which offers the installation compartment for electronic stuff. **WiMount** mounting system which comes with the antenna enables wall or mast mounting.

### Electrical specification

- **Frequency**
  - 2.4 - 2.5 GHz
  - 4.6 - 5.4 GHz
- **Gain**
  - 8 dB
  - 8 dB
- **VSWR**
  - <1.60, max < 1.80
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- **Beamwidth**
  - 120°/60°
  - 120°/90°
- **Polarization**
  - V
  - V
- **Cross-Polar Isolation**
  - >25 dB
- **Front-to-Back**
  - > 20 dB
- **Separation between Connectors**
  - 50 Ω
- **Max Input Power**
  - 20 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**
  - 1.8 kg
- **Connector**
  - RJ45 & 1xSMA/SMA RP/TNC RP/MMCX
- **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**
  - 9.3 x 10.5 x 14.8 cm
  - 3.67 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 - 2500 MHz 1x 8 dBi
- Polarization V for the frequency of 2400 - 2500 MHz
- Gain for the frequency of 4600 - 6400 MHz 1x 8 dBi
- Polarization V for the frequency of 4600 - 6400 MHz
- 1 x Connector SMA/SMA RP/TNC RP/MMCX
- 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 - 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