HIGH-DENSITY DUAL BAND BASE SECTOR ANTENNA

WiBOX SA M4DBC245-65-9X

WiBOX SA M4DBC245-65-9X is dual band concurrent (DBC) (2.4 and 5 GHz) X (slant) polarity MIMO 4x4 panel antenna. It can operate at two frequencies simultaneously, at 2.4 GHz and at 5 GHz. According to medium gain, it can be used on short and medium distances, for example for hotspots in schools, stadiums, offices or some public places. Can work also with mobile devices. It can work indoor and outdoor (IP67) as well. Wide frequency band (2.4-2.5 GHz & 4.9-6.0 GHz) allows to easily find suitable frequency for the operation. The antenna comes with No. 4 RP SMA plug connectors (it could be also with RP TNC, MMCX or u.FL conectors), and it’s designed for work in concurrent dual band technology, which means that SA M4DBC245-65-9X radiates simultaneously at both operating frequencies using only one single connector for 2.4 and 5 GHz signal. It’s predicted for special Access Points working in the systems where two bands (frequencies) are diplexed in one antenna connector, from the companies as Cisco, Aruba Networks, Huawei, Xirrus and others. The antenna is integrated with the top quality WiBOX Medium box system.

**Electrical specification**

- **Frequency**
  - 2.4 - 2.5 GHz
  - 4.9 - 6 GHz
- **Gain**
  - 8 dB
  - 9 dB
- **VSWR**
  - <1.50, max < 2.00
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- **Beamwidth**
  - 65°/65° +/- 5°
  - 60°/60° +/- 5°
- **Polarization**
  - V,H,X
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- **Cross-Polar Isolation**
  - Front-to-Back: > 17 dB
  - > 22 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
  - 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
- **Mast Dimensions Range**
  - 25 - 65mm
- **Material**
  - Polyamide with fiberglass + galvanized steel U-Bolts

**Features**

- Gain for the frequency of 2400 - 2500 MHz 4x 8 dBi
- Polarization V,H,X for the frequency of 2400 - 2500 MHz
- Gain for the frequency of 4900 - 6000 MHz 4x 9 dBi
- Polarization V,H,X for the frequency of 4900 - 6000 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 lighting - 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
- PtP connections
- PtM Connections
- System Integration

**Compatible with**

- Cisco - Aironet 3702e, Aironet 3702p, Aironet 3502e, Aironet 3702e, Aironet 3502e
- Huawei - AP-7105N-GN, AP-5150DN, AP-6610DN-AGN
- Xirrus - XR-520H

**Plots**