



HIGH-DENSITY DUAL BAND BASE SECTOR ANTENNA

WiBOX SA M4DBC245-120-8V

Wireless Instruments four element **MIMO 4x4 2.4/5 GHz dual-band** antenna for Wi-Fi is rugged and high-performance panel for outdoor and indoor applications. **WiBOX SA M4DBC245-120-8V** is 4-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. 4 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.

NOTE: The installation compartment is limited to 4cm due to the antenna construction.

ROHS



Electrical specification

| | |
|-------------------------------|--|
| Frequency | 2.4 - 2.5 GHz 4.6 - 6.4 GHz |
| Gain | 8 dBi 7 dBi ±1 |
| VSWR | <1.60, max < 1.80 <1.60, max < 1.80 |
| Beamwidth | 120°/60° 120°/90° |
| Polarization | V V |
| Cross-Polar Isolation | >25 dB |
| Front-to-Back | > 20 dB > 20 dB |
| Separation between Connectors | |
| 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/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 | 9.9 x 10.5 x 14.8 cm 3.9 x 4.13 x 5.83 inch |
| Regulation Range | +/- 30° |
| Weight | 0.87 kg |
| Mount 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 for the frequency of 2400 - 2500 MHz
- Gain for the frequency of 4600 - 6400 MHz 4x 7 dBi ±1
- Polarization V for the frequency of 4600 - 6400 MHz
- 4 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

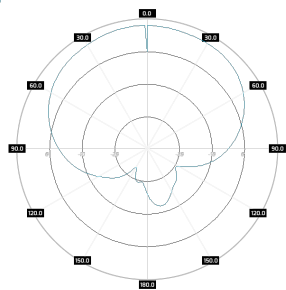
Systems

- LTE band - 40, 41, 46, 47, 53, 252, 255
- 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

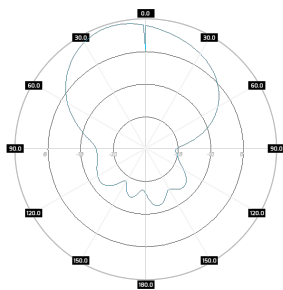
Applications

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

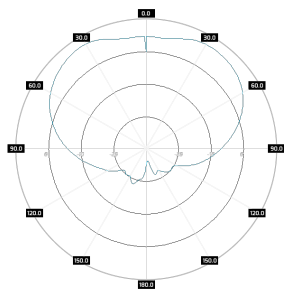
Plots



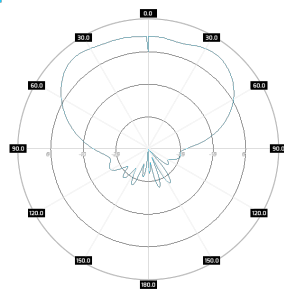
SA MDBC245-120-8V
2.45GHz, azimuth



SA MDBC245-120-8V
2.45GHz, elev.



SA MDBC245-120-8V
5.5GHz, azimuth



SA MDBC245-120-8V
5.5GHz, elev.