



## HIGH-DENSITY DUAL BAND BASE SECTOR ANTENNA

# WiBOX SA M3DBC245-120-8V

Wireless Instruments three element **MIMO 3x3 2.4/5 GHz dual-band** antenna for Wi-Fi is rugged and high-performance panel for outdoor and indoor applications. **WiBOX SA M3DBC245-120-8V** is 3-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. 3 of RP-SMA/U.FL/MMCX pigtailed 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.

ROHS



### Electrical specification

|                               |  |
|-------------------------------|--|
| Frequency                     | <ul style="list-style-type: none"> <li>⊗ 2.4 - 2.5 GHz</li> <li>⊗ 4.6 - 6.4 GHz</li> </ul>                     |
| Gain                          | <ul style="list-style-type: none"> <li>⊗ 8 dBi</li> <li>⊗ 7 dBi ±1</li> </ul>                                  |
| VSWR                          | <ul style="list-style-type: none"> <li>⊗ &lt;1.60, max &lt; 1.80</li> <li>⊗ &lt;1.60, max &lt; 1.80</li> </ul> |
| Beamwidth                     | <ul style="list-style-type: none"> <li>⊗ 120°/60°</li> <li>⊗ 120°/90°</li> </ul>                               |
| Polarization                  | <ul style="list-style-type: none"> <li>⊗ V</li> <li>⊗ V</li> </ul>   |
| Cross-Polar Isolation         | >25 dB   |
| Front-to-Back                 | <ul style="list-style-type: none"> <li>⊗ &gt; 20 dB</li> <li>⊗ &gt; 20 dB</li> </ul>                           |
| Separation between Connectors |  |
| Impedance                     | 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<br>10.71 x 10.87 x 3.78 inch |
| Weight                | 1.8 kg  |
| Connector             | RJ45 & 1xSMA/SMA RP/TNC<br>RP/MMCX                |
| Material              | ABS   |
| Waterproof level      | IP67  |
| Operating temperature | from -40°C to 80°C<br>from -40°F to 176°F         |
| Wind resistance       | 70km/h  |

### Mounting Kit

|                       |   |
|-----------------------|---|
| Dimensions            | 9.9 x 10.5 x 14.8 cm<br>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 +<br>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 7 dBi ±1
- ▶ 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