



## HIGH-DENSITY DUAL BAND BASE SECTOR ANTENNA

# WiBOX SA M4DBC245-30-12HV

**WiBOX SA M4DBC245-30-12HV is concurrent dual band (DBC) (2.4 and 5 GHz) H&V 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 & 5.1-5.9 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 plug, MMCX, u.FL or Nf outside connectors), and it's designed for work in **concurrent dual band technology**, which means that **SA M4DBC245-30-12HV radiates simultaneously at both operating frequencies using only one single connector for 2.4 and 5 GHz signals**. It's predicted mainly for special access points working in the systems where **two bands (frequencies) are diplexed for one antenna connector**, from the companies as **Cisco, Aruba Networks, Huawei, Xirrus** and other. The antenna is integrated with the top quality **WiBOX Medium** box system.

ROHS



### Electrical specification

Frequency	<ul style="list-style-type: none"> <li>2.4 - 2.5 GHz</li> <li>5.1 - 5.9 GHz</li> </ul>
Gain	<ul style="list-style-type: none"> <li>12 dBi</li> <li>12 dBi</li> </ul>
VSWR	<ul style="list-style-type: none"> <li>&lt;2.00</li> <li>&lt;2.00</li> </ul>
Beamwidth	<ul style="list-style-type: none"> <li>35°/35° +/- 5°</li> <li>35°/35° +/- 5°</li> </ul>
Polarization	<ul style="list-style-type: none"> <li>H&amp;V</li> <li>H&amp;V</li> </ul>
Cross-Polar Isolation	
Front-to-Back	
Separation between Connectors	<ul style="list-style-type: none"> <li>&gt; 30 dB</li> <li>&gt; 25 dB</li> </ul>
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 & 4x4x RP TNC (Cisco, Xirrus) / RP SMA (Aruba, Ruckus) / MMCX / u.FL or 4x NF outside connectors
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 12 dBi
- ▶ Polarization H&V for the frequency of 2400 - 2500 MHz
- ▶ Gain for the frequency of 5100 - 5900 MHz 4x 12 dBi
- ▶ Polarization H&V for the frequency of 5100 - 5900 MHz
- ▶ 4 x Connector 4x RP TNC (Cisco, Xirrus) / RP SMA (Aruba, Ruckus) / MMCX / u.FL or 4x NF outside connectors
- ▶ 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 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

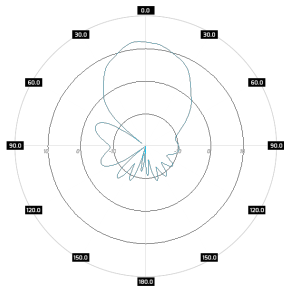
### Applications

- ▶ Stadiums, Public Places
- ▶ Hotspot
- ▶ PtP connections
- ▶ PtM Connections
- ▶ System Integration

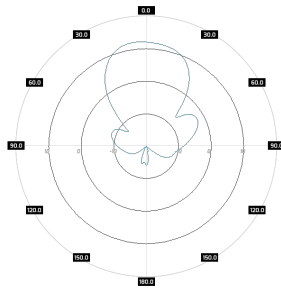
### Compatible with

- ▶ **Cisco** - Aironet 3702e, Aironet 3702p, Aironet 3602e, Aironet 2702e, Aironet 2602e, Aironet 1602e, Aironet 1552E, Aironet 1552H, Aironet 1852e
- ▶ **Ruckus Wireless** - ZoneFlex 7372-E
- ▶ **Aruba Networks** - AP-114, AP-134, AP-104, AP-204, IAP-204, AP-92, AP-224, IAP-224, IAP-104, IAP-134, IAP-114
- ▶ **Huawei** - AP 7110SN-GN, AP 5130DN, AP 6510DN-AGN, AP 6610DN-AGN
- ▶ **Xirrus** - XR - 520H

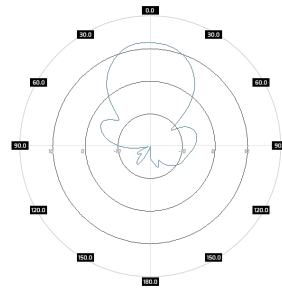
### Plots



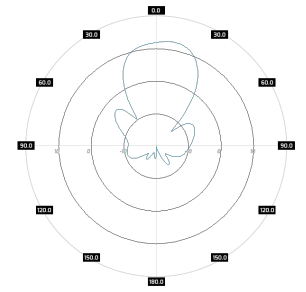
SA M4DBC245-30-12HV  
H-pol, azimuth, 5.5GHz



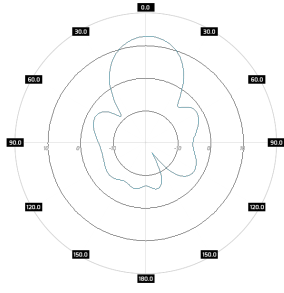
SA M4DBC245-30-12HV  
H-pol, elev, 5.5GHz



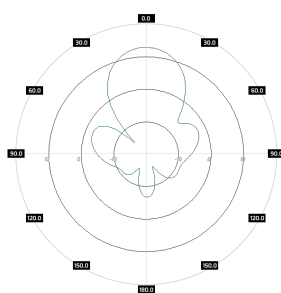
SA M4DBC245-30-12HV  
V-pol, elev, 5.5GHz



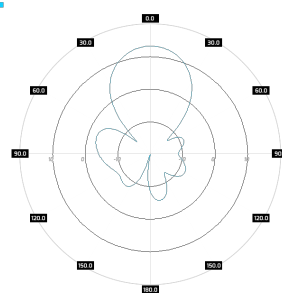
SA M4DBC245-30-12HV  
V-pol, elev, 5.5GHz



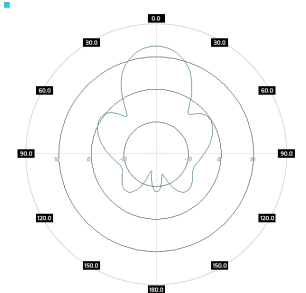
SA M4DBC245-30-12HV  
H-pol, azimuth, 2.45GHz



SA M4DBC245-30-12HV  
H-pol, elev, 2.45GHz



SA M4DBC245-30-12HV  
V-pol, azimuth, 2.45GHz



SA M4DBC245-30-12HV  
H-pol, elev, 2.45GHz