



## HIGH-DENSITY DUAL BAND BASE SECTOR ANTENNA

# WiBOX SA M6DBC245-65-9HVX

**SA M6DBC245-65-9HVX is dual band concurrent (DBC) (2,4 and 5 GHz) slant (+/-45deg) and H&V polarity MIMO 6x6 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. 6 RP SMA plug connectors (it could be also with RP TNC, MMCX or u.FL connectors), and it's designed for work in **concurrent dual band technology**, which means that **SA M6DBC245-65-9HVX radiates simultaneously at both operating frequencies using only one single connector for 2.4 and 5 GHz signal**. It's predicted for special **high-density 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.

ROHS



### Electrical specification

Frequency	<ul style="list-style-type: none"> <li>2.4 - 2.5 GHz</li> <li>4.9 - 6 GHz</li> </ul>
Gain	<ul style="list-style-type: none"> <li>8 dBi ±1</li> <li>9 dBi ±1</li> </ul>
VSWR	<ul style="list-style-type: none"> <li>&lt;1.50, max &lt; 1.80</li> <li>&lt;1.50, max &lt; 1.80</li> </ul>
Beamwidth	<ul style="list-style-type: none"> <li>70°/70° +/- 5°</li> <li>65°/65° +/- 5°</li> </ul>
Polarization	<ul style="list-style-type: none"> <li>X, H&amp;V</li> <li>X, H&amp;V</li> </ul>
Cross-Polar Isolation	
Front-to-Back	<ul style="list-style-type: none"> <li>&gt; 17 dB</li> <li>&gt; 22 dB</li> </ul>
Separation between Connectors	<ul style="list-style-type: none"> <li>&gt; 30 dB</li> <li>&gt; 47 dB</li> </ul>
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	1.8 kg
Connector	RJ45 & 6x6x RP TNC (Cisco, Xirrus) / RP SMA (Aruba, Ruckus) / MMCX / u.FL
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

### Plots

### Features

- ▶ Gain for the frequency of 2400 - 2500 MHz 6x 8 dBi ±1
- ▶ Polarization X,H&V for the frequency of 2400 - 2500 MHz
- ▶ Gain for the frequency of 4900 - 6000 MHz 6x 9 dBi ±1
- ▶ Polarization X,H&V for the frequency of 4900 - 6000 MHz
- ▶ 6 x Connector 6x RP TNC (Cisco, Xirrus) / RP SMA (Aruba, Ruckus) / MMCX / u.FL
- ▶ 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

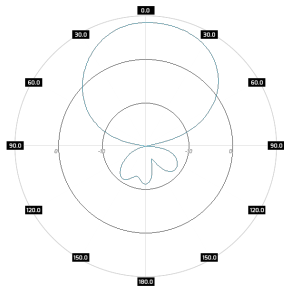
- ▶ LTE band - 40, 41
- ▶ WLAN - 2.4 GHz, 5 GHz
- ▶ WiMAX - 2.3 GHz, 2.5 GHz, 5 GHz
- ▶ RFID - 2400 - 2483 MHz, 5725 - 5875 MHz
- ▶ Bluetooth - 2400-2483 MHz
- ▶ ISM - 2400-2483 MHz, 5725-5875 MHz

### Applications

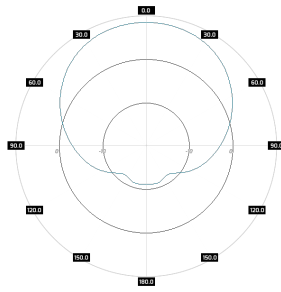
- ▶ Stadiums, Public Places
- ▶ Hotspot
- ▶ PtP connections
- ▶ PtM Connections
- ▶ System Integration

### Compatible with

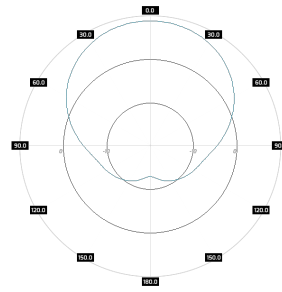
- ▶ **Cisco** - Aironet 3702e, Aironet 3602e, Aironet 3502e, Aironet 2702e, Aironet 2602e, Aironet 1602e, Aironet 1552E, Aironet 1552EU, Aironet 1552H
- ▶ **Ruckus Wireless** - ZoneFlex 7372-E
- ▶ **Aruba Networks** - AP-114, AP-134, AP-104, AP-204, IAP-204, AP-92, AP-224, IAP-224, IAP-104, IAP-134, IAP-114
- ▶ **Huawei** - AP 7110SN-GN, AP 7110DN-AGN, AP 6610DN-AGN
- ▶ **Xirrus** - XR - 520, XR - 2425H



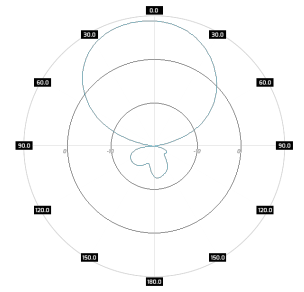
SA M6DBC245-65-9HVX  
H-pol, azimuth, 2.45Ghz



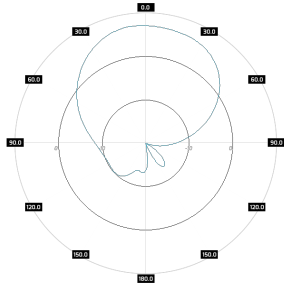
SA M6DBC245-65-9HVX  
H-pol, elev., 2.45Ghz



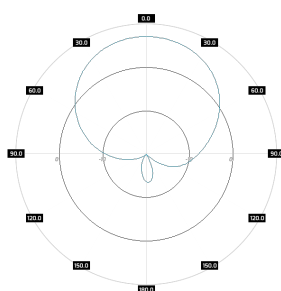
SA M6DBC245-65-9HVX  
V-pol, azimuth, 2.45Ghz



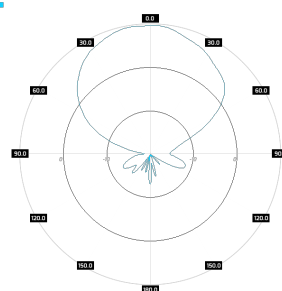
SA M6DBC245-65-9HVX  
V-pol, elev., 2.45Ghz



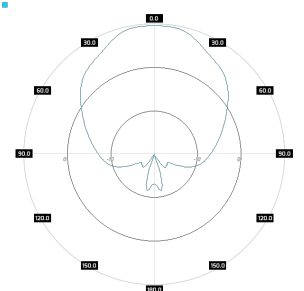
SA M6DBC245-65-9HVX  
Slant-pol, azimuth, 2.45Ghz



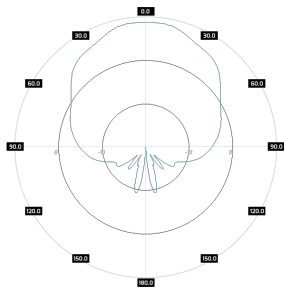
SA M6DBC245-65-9HVX  
Slant-pol, elev., 2.45Ghz



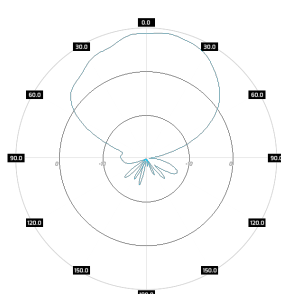
SA M6DBC245-65-9HVX  
H-pol, azimuth, 5.5Ghz



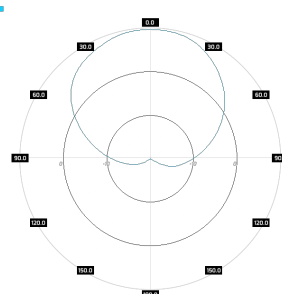
SA M6DBC245-65-9HVX  
H-pol, elev., 5.5Ghz



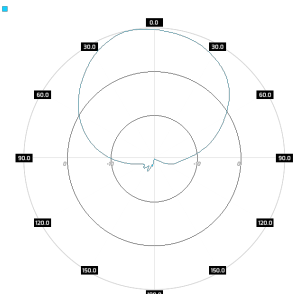
SA M6DBC245-65-9HVX  
V-pol, azimuth, 5.5Ghz



SA M6DBC245-65-9HVX  
V-pol, elev., 5.5Ghz



SA M6DBC245-65-9HVX  
Slant-pol, azimuth, 5.5Ghz



SA M6DBC245-65-9HVX  
Slant-pol, elev., 5.5Ghz