



HIGH-DENSITY DUAL BAND BASE SECTOR ANTENNA **WiBOX SA MDBC245-65-9HV**

WiBOX SA MDBC245-65-9HV is dual band concurrent (DBC) (2,4 and 5 GHz) H&V polarity MIMO 2x2 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. 2 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 MDBC245-65-9X** 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 duplexed 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	2.4 - 2.5 GHz 4.9 - 6 GHz
Gain	8 dBi 9 dBi
VSWR	<1.50, max < 2.00 <1.50, max < 2.00
Beamwidth	70°/70° +/- 5° 60°/60°
Polarization	H&V H&V
Cross-Polar Isolation	
Front-to-Back	> 17 dB > 22 dB
Separation between Connectors	> 30 dB > 47 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
Weight	1.6 kg
Connector	RJ45 & 2xSMA
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
Most Dimensions Range	25 - 65mm
Material	Polyamide with fiberglass + galvanized steel U-Bolts

Features

- Gain for the frequency of 2400 - 2500 MHz 2x 8 dBi
- Polarization H&V for the frequency of 2400 - 2500 MHz
- Gain for the frequency of 4900 - 6000 MHz 2x 9 dBi
- Polarization H&V for the frequency of 4900 - 6000 MHz
- 2 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 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

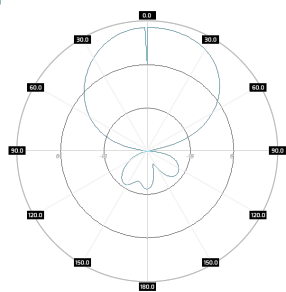
Applications

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

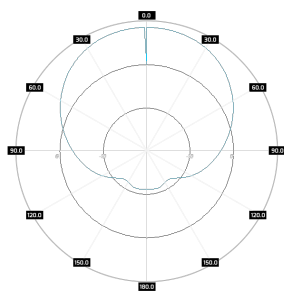
Compatible with

- Ruckus Wireless** - ZoneFlex 7372-E
- Aruba Networks** - AP-204, IAP-204, AP-92

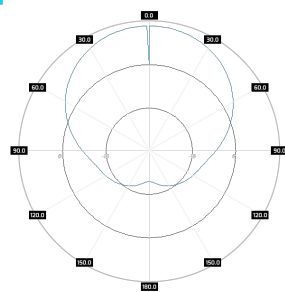
Plots



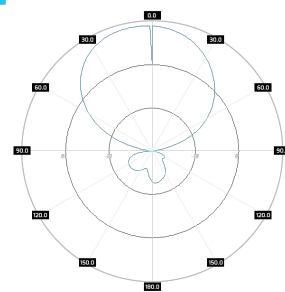
SA MDBC245-65-9HV
H-pol, azimuth, 2.45GHz



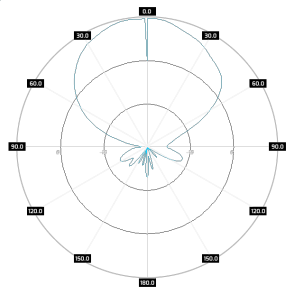
SA MDBC245-65-9HV
H-pol, elev, 2.45GHz



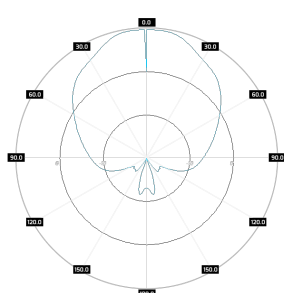
SA MDBC245-65-9HV
V-pol, azimuth, 2.45GHz



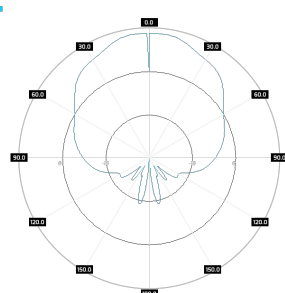
SA MDBC245-65-9HV
V-pol, elev, 2.45GHz



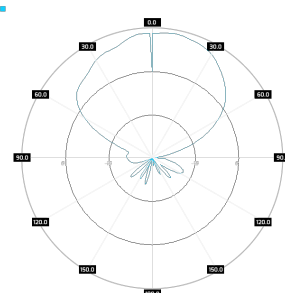
SA MDBC245-65-9HV
H-pol, azimuth, 5.5GHz



SA MDBC245-65-9HV
H-pol, elev, 5.5GHz



SA MDBC245-65-9HV
V-pol, azimuth, 5.5GHz



SA MDBC245-65-9HV
V-pol, elev, 5.5GHz