



HIGH-DENSITY DUAL BAND BASE SECTOR ANTENNA

WiBOX SA M3DBC245-65-9HV

WiBOX SA M3DBC245-65-9HV is dual band concurrent (DBC) (2.4 and 5 GHz) H&V polarity MIMO 3x3 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. 3 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 M3DBC245-65-9HV 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 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"> ☒ 2.4 - 2.5 GHz ☒ 4.9 - 6 GHz
Gain	<ul style="list-style-type: none"> ☒ 8 dBi ☒ 9 dBi
VSWR	<ul style="list-style-type: none"> ☒ <1.70 ☒ <1.70
Beamwidth	<ul style="list-style-type: none"> ☒ 70°/70° +/- 5° ☒ 60°/60°
Polarization	<ul style="list-style-type: none"> ☒ H&V ☒ H&V
Cross-Polar Isolation	
Front-to-Back	<ul style="list-style-type: none"> ☒ > 17 dB ☒ > 22 dB
Separation between Connectors	<ul style="list-style-type: none"> ☒ > 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 & 3xSMA
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 3x 8 dBi
- › Polarization H&V for the frequency of 2400 - 2500 MHz
- › Gain for the frequency of 4900 - 6000 MHz 3x 9 dBi
- › Polarization H&V for the frequency of 4900 - 6000 MHz
- › 3 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
- › 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

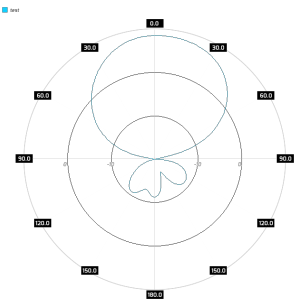
Applications

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

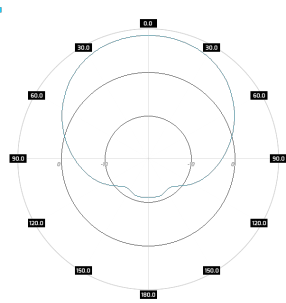
Compatible with

- › **Aruba Networks** - AP-114, AP-134, AP-204, IAP-204, AP-92, AP-224, IAP-224, IAP-134, IAP-114
- › **Cisco** - Aironet 1602e

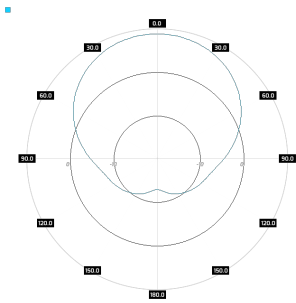
Plots



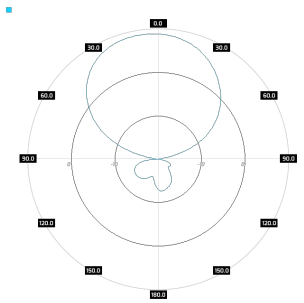
SA M3DBC245-65-9HV
H-pol, azimuth, 2.45GHz



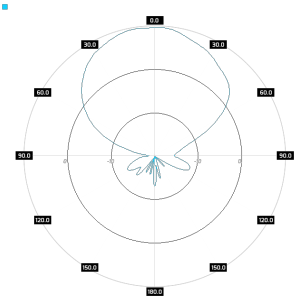
SA M3DBC245-65-9HV
H-pol, elev, 2.45GHz



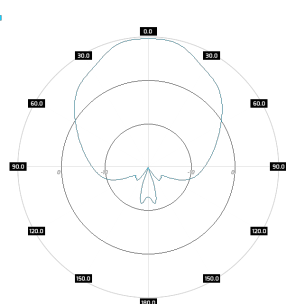
SA M3DBC245-65-9HV
V-pol, azimuth, 2.45GHz



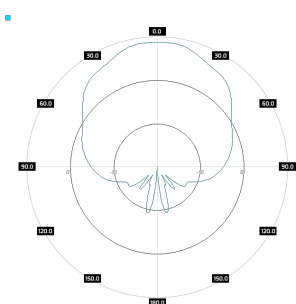
SA M3DBC245-65-9HV
V-pol, elev, 2.45GHz



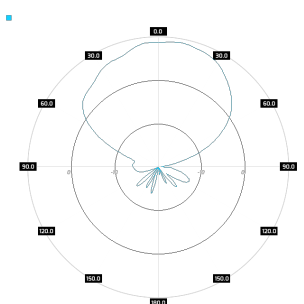
SA M3DBC245-65-9HV
H-pol, azimuth, 5.5GHz



SA M3DBC245-65-9HV
H-pol, elev, 5.5GHz



SA M3DBC245-65-9HV
V-pol, azimuth, 5.5GHz



SA M3DBC245-65-9HV
V-pol, elev, 5.5GHz