



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"> 2.4 - 2.5 GHz 5.1 - 5.9 GHz
Gain	<ul style="list-style-type: none"> 12 dBi 12 dBi
VSWR	<ul style="list-style-type: none"> <2.00 <2.00
Beamwidth	<ul style="list-style-type: none"> 35°/35° +/- 5° 35°/35° +/- 5°
Polarization	<ul style="list-style-type: none"> H&V H&V
Cross-Polar Isolation	
Front-to-Back	
Separation between Connectors	<ul style="list-style-type: none"> > 30 dB > 25 dB
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
- ▶ 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

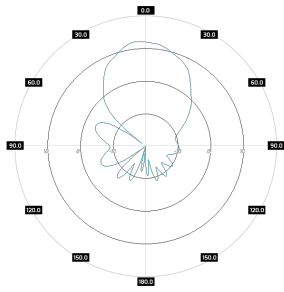
Applications

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

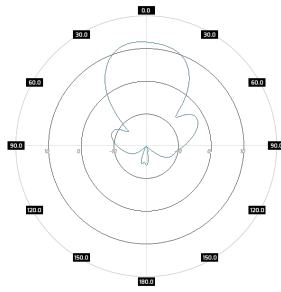
Compatible with

- ▶ **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

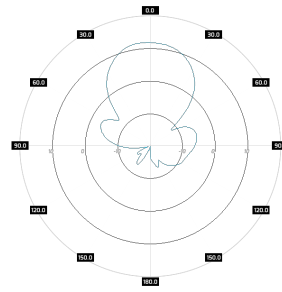
Plots



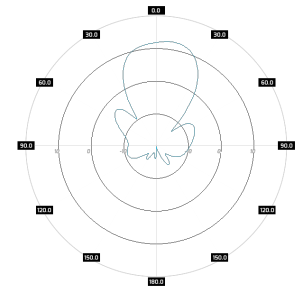
SA M4DBC245-30-12HV
H-pol, azimuth, 5.5GHz



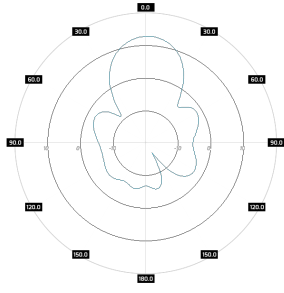
SA M4DBC245-30-12HV
H-pol, elev, 5.5GHz



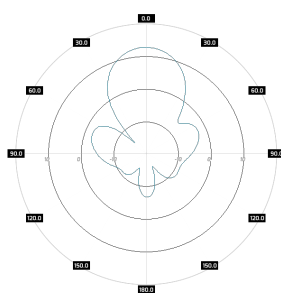
SA M4DBC245-30-12HV
V-pol, elev, 5.5GHz



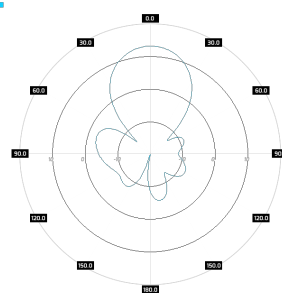
SA M4DBC245-30-12HV
V-pol, elev, 5.5GHz



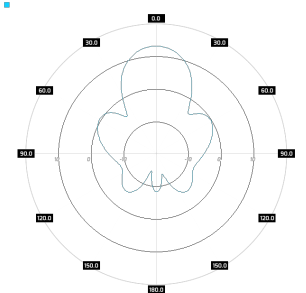
SA M4DBC245-30-12HV
H-pol, azimuth, 2.45GHz



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