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HIGH-DENSITY DUAL BAND BASE SECTOR ANTENNA

WiBOX SA MDBC245-30-12X

ROHS · DC GROUND · IP67 · UV RESISTANT · ABS

WiBOX SA MDBC245-30-12X *is* ***dual band concurrent (DBC) (2,4 and 5 GHz) X (slant) polarity MIMO 2x2 panel antenna****. It can operate at two frequencies simulteneously, 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. 2 RP SMA plug connectors (it could be also with RP TNC plug, MMCX, u.FL or Nf outside conectors), and it's designed for work in* ***concurrent dual band technology****, which means that* ***MDBC245-30-12X*** *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.*

Electrical specification

Frequency	2.4 - 2.5 GHz 5.1 - 5.9 GHz
Gain	12 dBi 12 dBi
VSWR	<2.00 <2.00
Beamwidth	30°/30° +/- 5° 30°/30° +/- 5°
Polarization	X X
Cross-Polar Isolation	
Front-to-Back	> 25 dB > 25 dB
Separation between Connectors	> 30 dB > 25 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
Mast Dimensions Range	25 - 65mm
Material	Polyamide with fiberglass + galvanized steel U-Bolts

Features

- Gain for the frequency of 2400 - 2500 MHz 2x 12 dBi
- Polarization X for the frequency of 2400 - 2500 MHz
- Gain for the frequency of 5100 - 5900 MHz 2x 12 dBi
- Polarization X for the frequency of 5100 - 5900 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 lighting - 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

Plots

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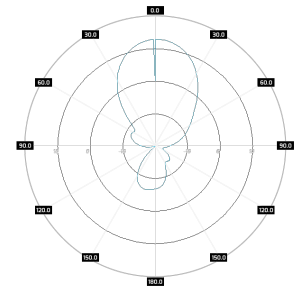
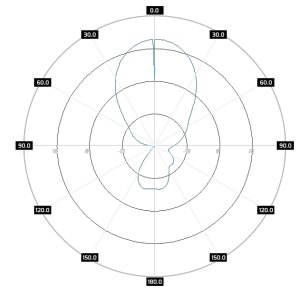
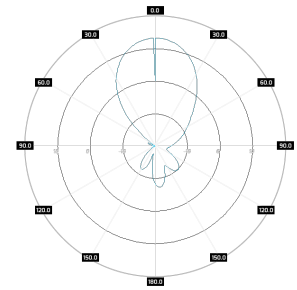


SA MDBC245-30-12X
Slant-pol, port 1, azimuth, 2.45GHz



SA MDBC245-30-12X
Slant-pol, port 1, elev, 2.45GHz



SA MDBC245-30-12X
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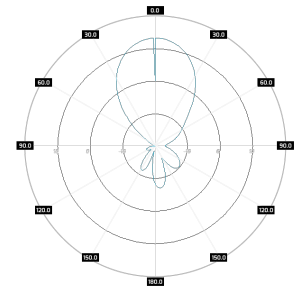
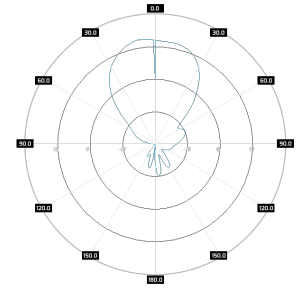
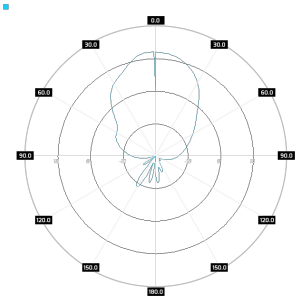


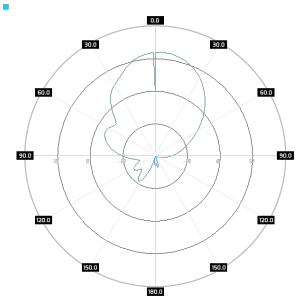
SA MDBC245-30-12X
Slant-pol, port 2, elev, 2.45GHz



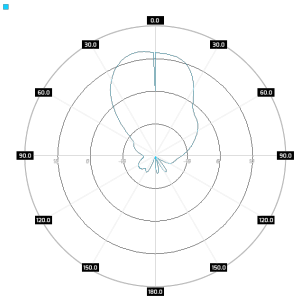
SA MDBC245-30-12X
Slant-pol, port 1, azimuth, 5.5GHz



SA MDBC245-30-12X
Slant-pol, port 1, elev, 5.5GHz



SA MDBC245-30-12X
Slant-pol, port 2 azimuth, 5.5GHz



SA MDBC245-30-12X
Slant-pol, port 2, elev, 5.5GHz

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