



HIGH-DENSITY DUAL BAND BASE SECTOR ANTENNA

WiBOX SA MDBC245-30-12HV-NF


ROHS


WiBOX SA MDBC245-30-12HV-NF is concurrent dual band (2.4 and 5 GHz) H&V polarity MIMO 2x2 sector antenna. It can operate at two frequencies simultaneously, at 2.4 GHz and at 5 GHz. According to medium gain and narrow beamwidth, it can be used on short and medium distances, for example for stadiums, public places etc. Can work also with mobile devices. The antenna comes with 2x Nf connectors and it's designed for work in concurrent dual band technology, which means that **SA MDBC245-30-12HV** 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, Ruckus Wireless, Aruba Networks, Huawei, Xirrus and other. Antenna is dedicated to such AP like **Ruckus Wireless T350se** and similar outdoor AP.

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"> <1.50, max < 2.00 <1.50, max < 2.00
Beamwidth	<ul style="list-style-type: none"> 30°/30° +/- 5° 30°/30° +/- 5°
Polarization	<ul style="list-style-type: none"> H&V H&V
Cross-Polar Isolation	
Front-to-Back	<ul style="list-style-type: none"> > 20 dB > 20 dB
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	27.2 x 27.6 x 6.2 cm 10.71 x 10.87 x 2.44 inch
Weight	1.7 kg
Connector	2xNf
Material	ABS
Waterproof level	IP67
Operating temperature	from -40°C to 70°C from -40°F to 158°F
Wind resistance	120km/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

Plots

Features

- › Gain for the frequency of 2400 - 2500 MHz 2x 12 dBi
- › Polarization H&V for the frequency of 2400 - 2500 MHz
- › Gain for the frequency of 5100 - 5900 MHz 2x 12 dBi
- › Polarization H&V for the frequency of 5100 - 5900 MHz
- › 2 x Connector Nf
- › Big, ergonomic and voluminous **WiBOX Medium Slim 2xN** enclosure for radio equipment installation
- › Outdoor Waterproof Enclosure **WiBOX Medium Slim 2xN**
- › Designed and resistant for any weather conditions
- › Grounding system protecting against lightning - DC Ground
- › 36 Warranty Months

Systems

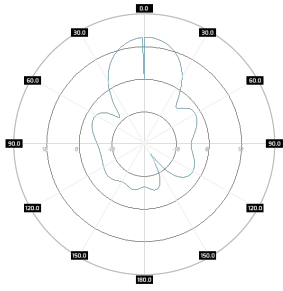
- › LTE band - 40, 41, 46, 47, 53, 252, 255
- › WLAN - 2.4 GHz, 5 GHz
- › WiMAX - 2.3 GHz, 2.5 GHz, 5 GHz
- › RFID - 2400 - 2483 MHz, 5725 - 5875 MHz
- › Bluetooth - 2400-2483 MHz
- › ISM - 2400-2483 MHz, 5725-5875 MHz

Applications

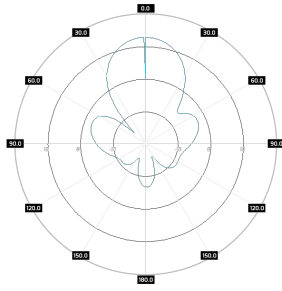
- › Stadiums, Public Places
- › Hotspot
- › PtP connections
- › PtM Connections

Compatible with

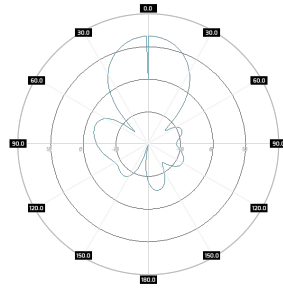
- › **Ruckus Wireless** - ZoneFlex T350se



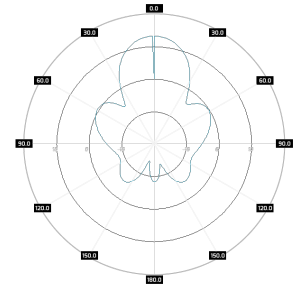
SA MDBC245-30-12HV
H-pol, azimuth, 2.45GHz



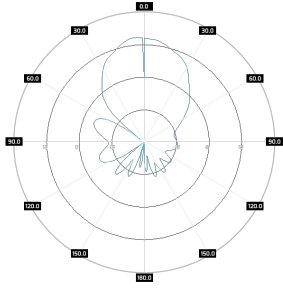
SA MDBC245-30-12HV
H-pol, elev, 2.45GHz



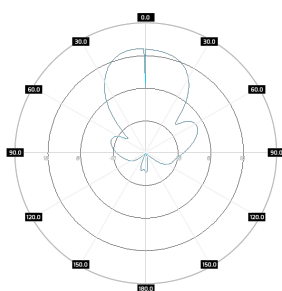
SA MDBC245-30-12HV
V-pol, azimuth, 2.45GHz



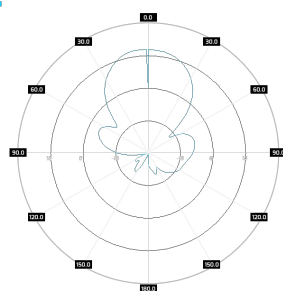
SA MDBC245-30-12HV
V-pol, elev, 2.45GHz



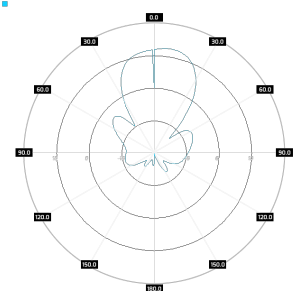
SA MDBC245-30-12HV
H-pol, azimuth, 5.5GHz



SA MDBC245-30-12HV
H-pol, elev, 5.5GHz



SA MDBC245-30-12HV
V-pol, azimuth, 5.5GHz



SA MDBC245-30-12HV
V-pol, elev, 5.5GHz