BASE SECTOR ANTENNA

WiBOX SA 5-45-19H

WiBOX SA5-45-19H is a sector H-polarity microstrip planar antenna operating at the frequency range of 5.1 – 5.9 GHz with 19 dBi gain. It is desired for point-to-multipoint (PMP) connections, where the high-gained base station antennas are required. It has narrow beamwidth so it can be used for covering small and medium areas as a base station for client stations or as the hotspot in schools, halls, stadiums or another public places. Works with WLAN 802.11a systems. Can be installed indoor and outdoor (IP67). The antenna is integrated with the top quality WiBOX Large box system.

Electrical specification

- Frequency: 5.1 - 5.9 GHz
- Gain: 19 dBi
- VSWR: ≤1.50, max ≤ 1.80
- Beamwidth: 8°/45°
- Polarization: H
- Cross-Polar Isolation: 15 dB
- Front-to-Back: 25 dB
- Separation between Connectors: 8 cm
- 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: 2.7 kg
- Connector: RJ45
- 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 5100 - 5900 MHz: 19 dBi
- Polarization H for the frequency of 5100 - 5900 MHz
- D x Connector SMA
- 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

- WLAN - 5 GHz
- WiMAX - 5 GHz
- RFID - 5725 - 5875 MHz
- ISM - 5725-5875 MHz

Applications

- Stadiums, Public Places
- Hotspot
- PMP Connections
- System Integration

Plots

Radiation pattern WiBOX 5-45-19H H-Pol
Radiation pattern WiBOX 5-45-19H V-Pol