



BASE SECTOR ANTENNA

WiBOX SA M5-90-17HV SLIM RBR

WiBOX SA M5-90-17HV SLIM RBR is an **H&V** polarity **MIMO 2x2** sector antenna operating at a frequency range of: **5.1 - 5.95 GHz** with **17 dBi** gain. Wireless Instruments technical division developed special radiator **RBR (Reduced-Back-Radiation)** which minimizes **F/B (Front-to-Back)** factor, so this eliminates **co-location** problem. Additional big advantage is that the electronic radio board installed inside **WiBOX** is **fully shielded by the special made metal cover**. The antenna is predicted for **point-to-multipoint (PMP)** connections, can be used for covering medium and big areas as a **base station** for client stations or as the **hotspot in halls, stadiums or another public places**. It can work **indoor and outdoor (IP 67)**. It works with the **WLAN 802.11n/ac** systems. The antenna is integrated with the top quality **WiBOX Extra Large Slim** box system.






Electrical specification

| | |
|-------------------------------|----------------|
| Frequency | 5.1 - 5.95 GHz |
| Gain | 17 dBi |
| VSWR | <2.00 |
| Beamwidth | 8°/90° |
| Polarization | H&V |
| Cross-Polar Isolation | |
| Front-to-Back | > 32 dB |
| Separation between Connectors | |
| Impedance | 50 Ω |
| Max Input Power | 50 W |
| Lighting Protection | No |
| DC Ground | No |

Mechanic specification

| | |
|-----------------------|---|
| Dimensions | 29.2 x 48.6 x 7.1 cm 11.5 x 19.13 x 2.8 inch |
| Weight | 2.5 kg |
| Connector | RJ45 & 2xMMCX/U.FL |
| Material | ABS |
| Waterproof level | IP67 |
| Operating temperature | from -40 +70°C to °C from -40°F to 32°F |
| Wind resistance | km/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 |
| Max Dimensions Range | 25 - 65mm |
| Material | Polyamide with fiberglass + galvanized steel U-Bolts |

Features

- › Gain for the frequency of 5100 - 5950 MHz 2x 17 dBi
- › Polarization H&V for the frequency of 5100 - 5950 MHz
- › 2 x Connector MMCX/U.FL
- › Big, ergonomic and voluminous **WiBOX Extra Large SLIM** enclosure for radio equipment installation
- › Outdoor Waterproof Enclosure **WiBOX Extra Large SLIM**
- › Designed and resistant for any weather conditions
- › RJ45 Waterproof System
- › 36 Warranty Months

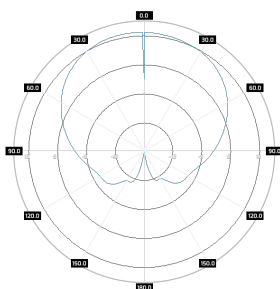
Systems

- › LTE band - 46, 47, 252, 255
- › WLAN - 5 GHz
- › WiMAX - 5 GHz
- › RFID - 5725 - 5875 MHz
- › ISM - 5725-5875 MHz

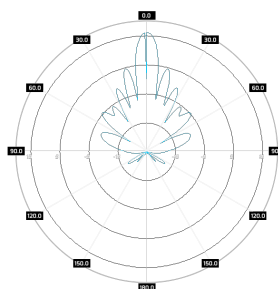
Applications

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

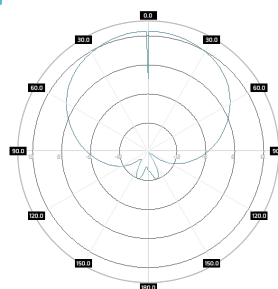
Plots



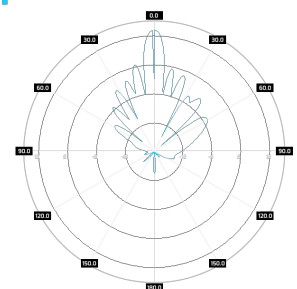
SA M5-90-17HV RBR
H-pol, azimuth



SA M5-90-17HV RBR
H-pol, elev.



SA M5-90-17HV RBR
V-pol, azimuth



SA M5-90-17HV RBR
V-pol, elev.