



## PTP/CLIENT ANTENNA

# WiBOX PA M23-19HV

**WiBOX PA M23-19HV** is dual polarity HV panel antenna with 19 dBi gain (**frequency 2200-2500 MHz**), designed to operate at **MIMO 2x2** system. The antenna is predicted for **point-to-point (PTP)** or **point-to-multipoint (PMP)** as the client antenna, in interfered environments. **WiBOX PA M23-19HV** can work indoor and outdoor (**IP67**). Due to wide operating frequency range this antenna can operate in the systems like **Bluetooth, WLAN 2.4GHz or American S Band (225, 235)**. The antenna is integrated with the top quality **WiBOX Large Slim** and comes with **2 x N Female** connectors.


 ROHS


 DC GROUND


 IP67


 UV RESISTANT


 ABS

### Electrical specification

Frequency	2.2 - 2.5 GHz
Gain	19 dBi ±1
VSWR	<1.40, max < 1.70
Beamwidth	20°/20° +/- 2°
Polarization	H&V
Cross-Polar Isolation	
Front-to-Back	> 25 dB
Separation between Connectors	> 35 dB
Impedance	50 Ω
Max Input Power	50 W
Lighting Protection	No
DC Ground	Yes

### Mechanic specification

Dimensions	39.2 x 39.6 x 7.7 cm 15.43 x 15.59 x 3.03 inch
Weight	0 kg
Connector	RJ45 & 2xN
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
Mast Dimensions Range	25 - 65mm
Material	Polyamide with fiberglass + galvanized steel U-Bolts

### Features

- Gain for the frequency of 2200 - 2500 MHz 2x 19 dBi ±1
- Polarization H&V for the frequency of 2200 - 2500 MHz
- 2 x Connector N
- Big, ergonomic and voluminous **WiBOX Large Slim** enclosure for radio equipment installation
- Outdoor Waterproof Enclosure **WiBOX Large Slim**
- Designed and resistant for any weather conditions
- RJ45 Waterproof System
- Grounding system protecting against lightning - DC Ground
- 36 Warranty Months

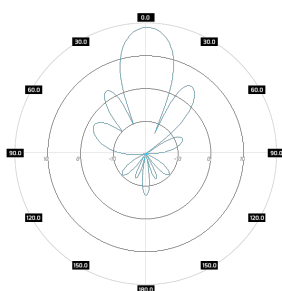
### Systems

- LTE band - 30, 40, 41, 53
- WLAN - 2.4 GHz
- WiMAX - 2.3 GHz, 2.5 GHz
- RFID - 2400 - 2483 MHz
- Bluetooth - 2400-2483 MHz
- ISM - 2400-2483 MHz

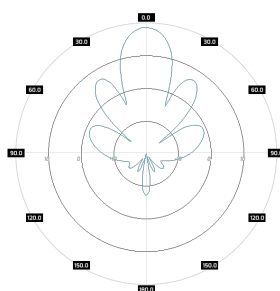
### Applications

- PtP connections
- PtM Connections

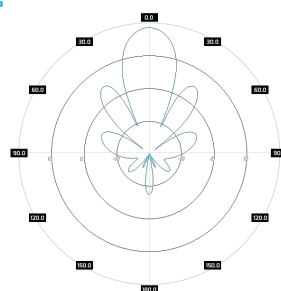
### Plots



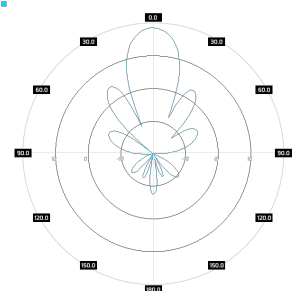
PA M23-19HV  
Pol. H, azimuth



PA M23-19HV  
Pol. H, elev.



PA M23-19HV  
Pol. V, azimuth



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