ANTENNAS | WLAN-61

WLAN-61: DUAL BAND WI-FI ANTENNA
2.4GHZ & 5GHZ DUAL BAND 4X4 DIRECTIONAL WIFI ANTENNA

Product Overview

The new Wi-Fi Dual-Band MIMO antenna, developed by Poynting Antennas, can connect to any Wi-Fi access point whether it is older Wi-Fi technology or new dual band Wi-Fi technology. Multiple Dual Band antennas can resolve channel saturation and provide the ultimate in Wi-Fi performance and flexibility. This 4x4 MiMo antenna has 4 different antenna orientations in one enclosure. This means the antenna can be used in a 2x2, 3x3 and if necessary a 4x4 antenna configuration.

The Wide beamwidth ensures good coverage in offices, halls and factories etc. The antenna operates in two frequency bands 2.4 GHz and 5 GHz, offering excellent utilization of the radio spectrum. This Antenna has 9dBi gain at 2.4GHz band and 11dBi gain at the 5GHz band, which offers the best performance with reliable connections. The housing is made of ABS which is high impact resistant plastic and is also resistant to acids and other chemicals that may occur in industrial plants.

The antenna can be opened on the side where the 4 x SMA female connectors are placed. The cable can be fed through the bypass gland, which eliminates the joint to the antenna extension cables. This eliminates connector losses and the need for taping and waterproofing the connectors for an outdoor installation. This antenna is designed for installations where 4x4 (four independent streams), multiplexing time-space technologies is needed. It can be used indoors or outdoors and is ideal for use in warehouses, production facilities, building sites or any other environment that requires Wi-Fi connectivity, such as computers, mobile phones, tablets, and any other IOT devices.

Application areas

- Offices
- Factories
- Poor data signal reception (indoor or outdoor)
- Warehouses
- Open mine areas and areas with a lot of radio frequency noise.
- M2M
Frequency bands

The WLAN-61 is a wide-band antenna that works across 2400 - 2500 & 5000 - 6000 MHz

WLAN-61:

VSWR:

Voltage Standing Wave Ratio (VSWR)*

VSWR is a measure of how efficiently radio-frequency power is transmitted from a power source, through a transmission line, into a load. In an ideal system, 100% of the energy is transmitted which corresponds to a VSWR of 1:1.

WLAN-061 delivers superior performance across all bands with a VSWR of 2.0:1 or better.

*VSWR measured with 1m low loss cable

Gain: (excluding cable loss)

Gain* in dBi

11 dBi is the peak gain across all bands from 2.4-2.5GHz & 5.0 - 6.0GHz

Gain @ 2400 - 2500 MHz: 9 dBi
Gain @ 5000 - 6000 MHz: 11 dBi

Antenna gain measured with polarisation aligned standard antenna
Radiation Patterns

H-Plane: 2400-2500 MHz

E-Plane: 2400-2500 MHz

H-Plane: 4700 -5800 MHz

E-Plane: 4700 -5800 MHz
### Electrical Specifications

- **Frequency Bands:**
  - 2400 - 2500 MHz
  - 5000 - 6000 MHz

- **Gain (Max):**
  - 11 dBi

- **VSWR:**
  - <2.0:1

- **Feed Power Handling:**
  - 10 W

- **Input Impedance:**
  - 50 Ohm (nominal)

- **Polarisation:**
  - Linear Vertical

- **Path to ground:**
  - Yes

- **Cable Length:**
  - N/A

- **Cable Type:**
  - N/A

- **Connector:**
  - SMA Female

- **Beamwidth:**
  - 2400 - 2500 MHz: 48°
  - 4700 - 5800 MHz: 34°

### Environmental Specifications

- **Wind Survival:**
  - 160km/h

- **Temperature Range (Operating):**
  - -40°C to +70°C

- **Environmental Conditions:**
  - Outdoor/Indoor

- **Operating Relative Humidity:**
  - Up to 98%

- **Storage Humidity:**
  - 5% to 95% - non condensing

- **Storage Temperature:**
  - -40°C to +70°C

### Mechanical Specifications

- **Product Dimensions (L x W x D):**
  - 240 mm x 240 mm x 60 mm

- **Weight:**
  - 760.6g

- **Packaged Dimensions:**
  - 260 mm x 280 mm x 80 mm

- **Packaged Weight:**
  - 1334.8g

- **Radome Material:**
  - ABS (Halogen Free)

- **Radome Colour:**
  - Cool Gray (1C)

- **RAL 7047**

### Product Box Contents

- **Antenna:**
  - A-WLAN-0061-V1

- **Mounting Bracket:**
  - Cast aluminium swivel bracket

  The cable and connector is factory mounted to the antenna

### Ordering Information

- **Commercial name:**
  - WLAN-61

- **Order Product Code:**
  - A-WLAN-0061-V1

- **EAN number:**
  - 0707273469670

### Additional Accessories Available

- **Extension Cables:**
  - None

### Certification Approvals and Standards

- **Flammability rating:**
  - UL 94-V0

- **Water Ingress Protection Ratio/Standard:**
  - IP 65 (NEMA 4X)

- **Impact resistance:**
  - IK 08

- **Salt Spray:**
  - MIL-STD 810F / ASTM B117

- **Product Safety:**
  - Complies with UL, CE, EN, CSA and IEC standards

### Contact Poynting

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