

## ANTENNAS | WLAN-60

# WLAN-60

2400 - 2500, 3300 - 3800 & 5000 - 6000 MHZ WIRELESS ANTENNA



- Dual band 2.4 and 5GHz Wi-Fi
- High Gain Wi-Fi antenna
- Compliant with IEEE 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac wireless standard
- Ruggedized
- Quick and compact setup
- This antenna also works at the LTE 3.3GHz-3.8GHz frequencies with a max gain of 15dBi

### Product Overview

The new Dual-Band Wi-Fi 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. These antennas can resolve channel saturation and provide the ultimate in Wi-Fi performance and flexibility. This antenna has a single linear high gain dual band antenna in one enclosure. This means the antenna can be used for point to point links where there is an abundance of RF noise and also cluttered environments.

The antenna operates in two frequency bands 2.4 GHz and 5 GHz, offering excellent utilization of the radio spectrum. This Antenna has 13dBi gain at 2.4GHz band and 18dBi 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 an SMA female connector is placed. You can then feed the cable through the bypass gland, which means you don't have to join the antenna cable to extension cables. This eliminates connector losses and the need for taping and waterproofing the connectors for an outdoor installation.


### Application areas

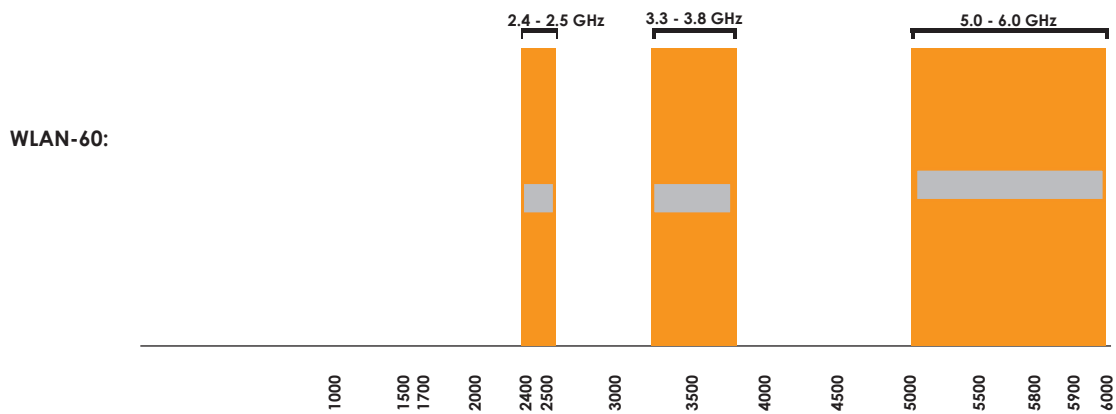
- Small business
- Building sites
- Factories
- Open mine sites
- Production facilities
- M2M
- 3.3GHz -3.8GHz LTE applications
- Areas where there is a large amount of Machinery (cluttered environment)
- Areas where there is poor Wi-Fi connection and a lot of RF noise.



## Frequency bands

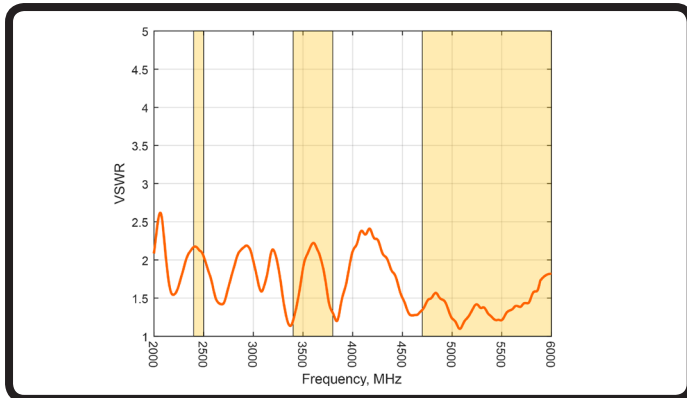
The WLAN-60 is a wide-band antenna that works across Wi-Fi bands and LTE bands: 22, 42 & 43

 Indicates the bands on which this antenna works



## Antenna Performance Plots

### VSWR:



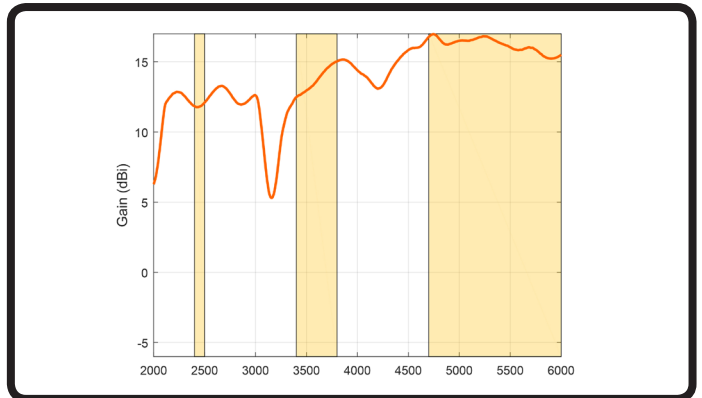
### Voltage Standing Wave Ratio (VSWR)\*

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-0060 delivers superior performance across all bands with a VSWR of 2.5:1 or better.

\*VSWR measured with 1m low loss cable

### Gain: (excluding cable loss)



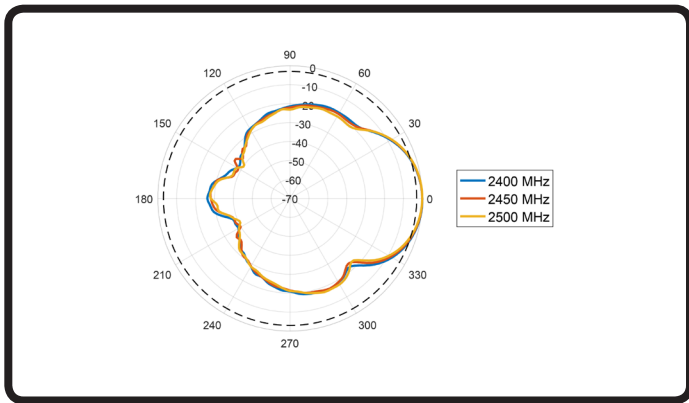
### Gain\* in dBi

18 dBi is the peak gain across all bands from 4700 - 6000 MHz

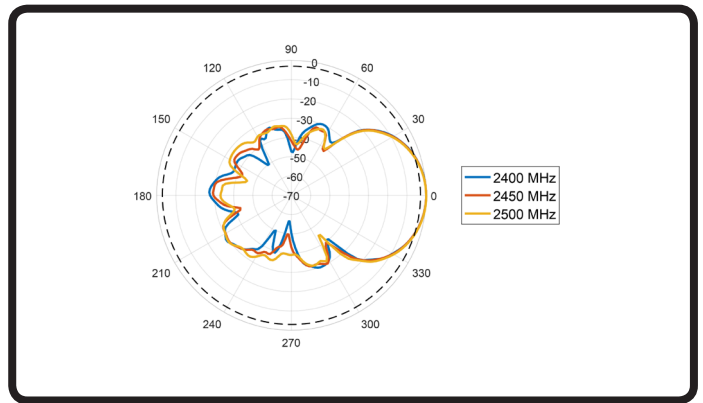
Gain @ 2400 - 2500 MHz:	13 dBi
Gain @ 3300 - 3800 MHz:	15 dBi
Gain @ 5000 - 6000 MHz:	18 dBi

\*Antenna gain measured with polarisation aligned standard antenna

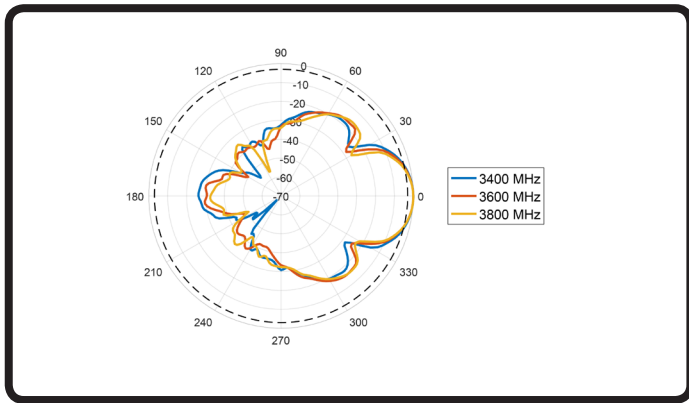
H-Plane: 2400 - 2500 MHz



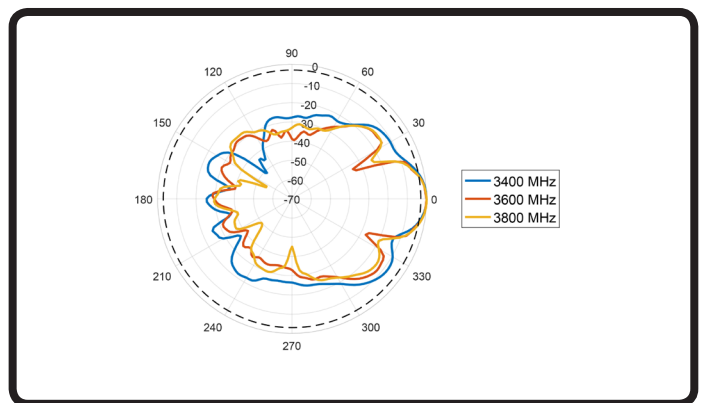
E-Plane: 2400 - 2500 MHz



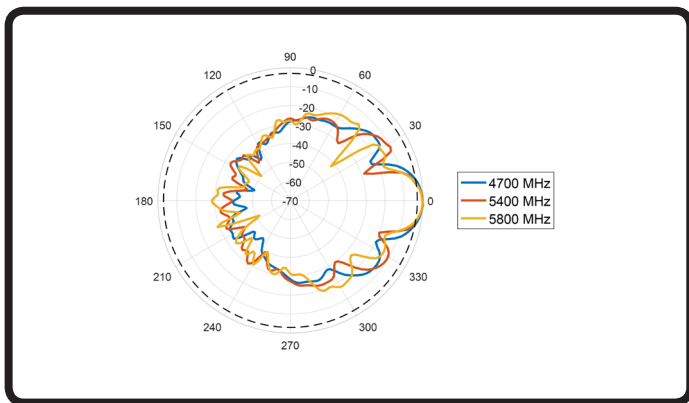
H-Plane: 3400 - 3800 MHz



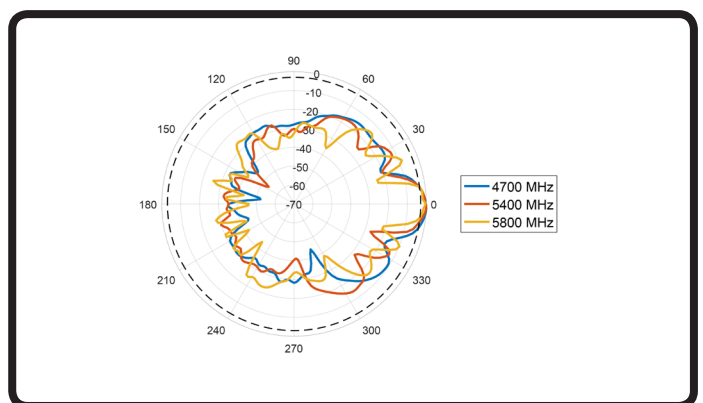
E-Plane: 3400 - 3800 MHz



H-Plane: 4700 - 5800 MHz



E-Plane: 4700 - 5800 MHz



## Electrical Specifications

Frequency Bands:	2400 - 2500 MHz 3300 - 3800 MHz 5000 - 6000 MHz
Gain (Max):	18 dBi
VSWR:	<2.5:1
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

## 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

## Ordering Information

Commercial name:	WLAN-60
Order Product Code:	A-WLAN-0060-V1
EAN number:	0707273469571

## Additional Accessories Available

Extension Cables:	None
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For more detailed information and availability in your region, visit our web site: [www.poynting.tech](http://www.poynting.tech)

## Contact Poynting

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## Mechanical Specifications

Product Dimensions (L x W x D):	240 mm x 240 mm x 60 mm
Packaged Dimensions:	260 mm x 280mm x 80mm
Weight:	760.6g
Packaged Weight:	1334.8g
Radome Material:	ABS (Halogen Free)
Radome Colour:	Cool Gray (1C) RAL 7047

## Product Box Contents

Antenna:	A-WLAN-0060-V1
Mounting Bracket:	Cast aluminium swivel bracket

*The cable and connector is factory mounted to the antenna*



## 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



### WLAN-60

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Product Specifications may change without prior notice

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