

## Product Brief



## ANT-W63-MON-ccc WiFi 6 Monopole Whip Antenna

The Linx ANT-W63-MON series antenna is a compact monopole tilt/swivel whip antenna designed for superior performance in the 2.4 GHz, 5 GHz and 6 GHz bands supporting both WiFi 6 and WiFi 6E.

The ANT-W63-MON antennas work with multiple ground plane configurations and the hinged design allows for the antenna to be positioned for optimum performance.

The antenna is available with an SMA plug (male pin) or RP-SMA plug (female socket) connector.



### Features

- Performance at 2.4 GHz
  - VSWR:  $\leq 2.2$
  - Peak Gain: 3.2 dBi
  - Efficiency: 65%
- Performance at 5.150 GHz to 7.125 GHz
  - VSWR:  $\leq 2.3$
  - Peak Gain: 4.2 dBi
  - Efficiency: 62%
- Hinged design with detents for straight, 45 degree and 90 degree positioning

### Applications

- WiFi/WLAN coverage
  - WiFi 6E (802.11ax)
  - WiFi 6 (802.11ax)
  - WiFi 5 (802.11ac)
  - WiFi 4 (802.11n)
  - 802.11b/g
- 2.4 GHz ISM applications
  - Bluetooth®
  - ZigBee®
- U-NII bands 1-8
- C-V2X (Cellular Vehicle to Everything)
- DSRC (Dedicated Short Range Communications)
- Internet of Things (IoT) devices
- Smart Home networking
- Sensing and remote monitoring

### Ordering Information

Part Number	Description
ANT-W63-MON-RPS	WiFi 6/WiFi 6E monopole whip antenna with RP-SMA plug (female socket)
ANT-W63-MON-SMA	WiFi 6/WiFi 6E monopole whip antenna with SMA plug (male pin)

Available from Linx Technologies and select distributors and representatives.

Table 1. Electrical Specifications

ANT-W63-MON	ISM/WiFi	WiFi/U-NII 1-3	WiFi 6E
Frequency Range	2400 MHz to 2485 MHz	5150 MHz to 5850 MHz	5925 MHz to 7125 MHz
VSWR (max.)	2.4	2.3	2.0
Peak Gain (dBi)	3.2	4.2	3.4
Average Gain (dBi)	-2.1	-2.4	-3.3
Efficiency (%)	65	62	51
Impedance	50 Ω		
Polarization	Linear		
Radiation	Omnidirectional		
Wavelength	1/4-wave		
Electrical Type	Monopole		
Max Power	5 W		

Electrical specifications and plots measured with a 150 mm x 90 mm (5.91 in x 3.54 in) reference ground plane, edge bent orientation.

Table 2. Mechanical Specifications

Parameter	Value
Connection	SMA plug (male pin) or RP-SMA plug (female socket)
Operating Temp. Range	-40 °C to +130 °C
Weight	8.4 g (0.30 oz)
Dimensions	71.1 mm x Ø9.3 mm (2.80 in x Ø0.37 in)

VSWR

Figure 1 provides the voltage standing wave ratio (VSWR) across the antenna bandwidth. VSWR describes the power reflected from the antenna back to the radio. A lower VSWR value indicates better antenna performance at a given frequency. Reflected power is also shown on the right-side vertical axis as a gauge of the percentage of transmitter power reflected back from the antenna.

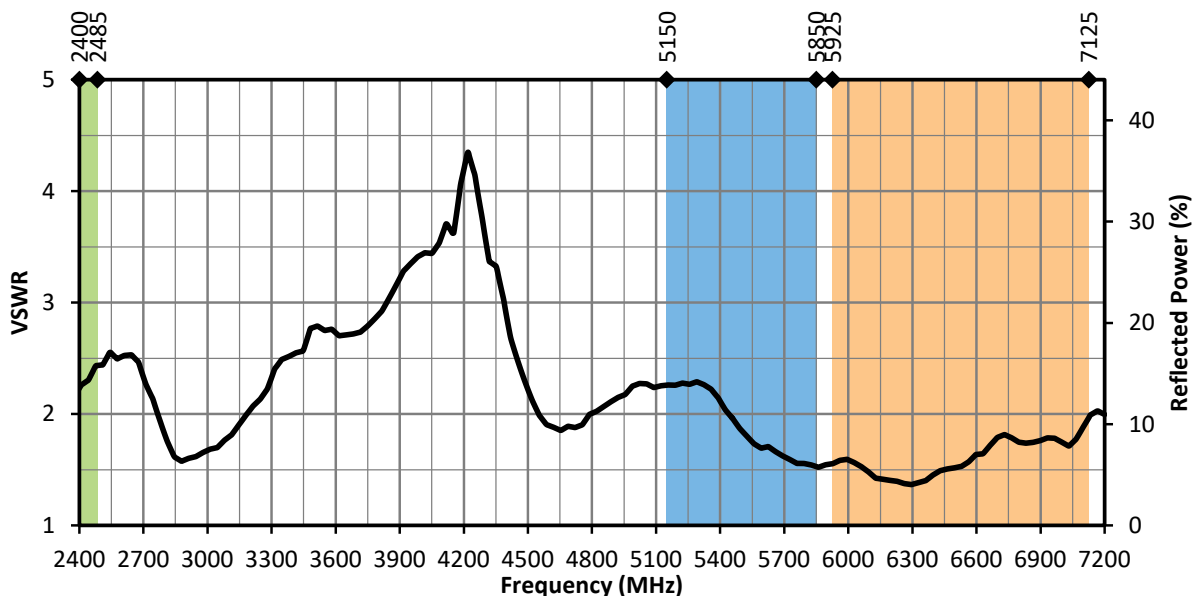


Figure 1. ANT-W63-MON VSWR, on Edge of Ground Plane, Bent 90 Degrees

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