

Product Brief



ANT-W63WSx Series Hinged Blade WiFi 6/6E Antennas

The Linx W63WSx series are dipole, blade-style antennas for WiFi 6/WiFi 6E applications in the 2.4 GHz, 5 GHz and 6 GHz bands. By providing a range of sizes and performance levels, Linx W63WSx antennas enable users to quickly find the antenna that best suits the needs of their solution.

All W63WSx series antennas have a hinged design which allows for the antenna to be positioned for optimum performance and connect via an SMA plug (male pin) or RP-SMA plug (female socket) connector.



Features

- W63WSx performance range
 - VSWR: ≤ 1.5 to ≤ 1.8
 - Peak Gain: 4.7 dBi to 5.8 dBi
 - Efficiency: 62% to 89%
- Hinged design with detents for straight, 45 degree and 90 degree positioning
- W63WSx lengths
 - 85.5 mm to 179.6 mm (straight)
 - 65.0 mm to 156.0 mm (bent 90 degrees)

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
- Internet of Things (IoT) devices
- Smart Home networking
- Sensing and remote monitoring

Ordering Information

Part Number	Description
ANT-W63WS1-RPS	WiFi 6/WiFi 6E blade-style antenna with RP-SMA plug (female socket) connector
ANT-W63WS1-SMA	WiFi 6/WiFi 6E blade-style antenna with SMA plug (male pin) connector
ANT-W63WS2-RPS	WiFi 6/WiFi 6E blade-style antenna with RP-SMA plug (female socket) connector
ANT-W63WS2-SMA	WiFi 6/WiFi 6E blade-style antenna with SMA plug (male pin) connector
ANT-W63WS3-SMA	WiFi 6/WiFi 6E blade-style antenna with SMA plug (male pin) connector
ANT-W63WS4-RPS	WiFi 6/WiFi 6E blade-style antenna with RP-SMA plug (female socket) connector
ANT-W63WS4-SMA	WiFi 6/WiFi 6E blade-style antenna with SMA plug (male pin) connector

Available from Linx Technologies and select distributors and representatives.

Individual product datasheets available at www.linxtechnologies.com

Specifications

Parameter	Value
Impedance	50 Ω
Wavelength	1/2-wave
Electrical Type	Dipole
Radiation	Omnidirectional
Polarization	Linear
Connection	SMA plug (male pin) or RP-SMA plug (female socket)*
Antenna Color	Black
Operating Temp. Range	-20 °C to +65 °C
Packaging Information	The W63WSx series antenna is individually sealed in a clear plastic bag. Distribution channels may offer alternative packaging options.

Electrical specifications and plots measured with the antenna in a straight orientation.

*RP-SMA not available on the ANT-W63WS3.

VSWR (max.)

Model	2400 MHz to 2485 MHz	5150 MHz to 5850 MHz	5925 MHz to 7125 MHz
ANT-W63WS1	2.3	1.7	2.3
ANT-W63WS2	1.5	1.5	1.5
ANT-W63WS3	2.3	1.8	3.5
ANT-W63WS4	1.2	1.6	1.8

Peak Gain (dBi)

Model	2400 MHz to 2485 MHz	5150 MHz to 5850 MHz	5925 MHz to 7125 MHz
ANT-W63WS1	2.3	1.7	2.3
ANT-W63WS2	1.5	1.5	1.5
ANT-W63WS3	2.3	1.8	3.5
ANT-W63WS4	1.2	1.6	1.8

Average Gain (dBi)

Model	2400 MHz to 2485 MHz	5150 MHz to 5850 MHz	5925 MHz to 7125 MHz
ANT-W63WS1	-2.4	-2.4	-2.6
ANT-W63WS2	-0.8	-0.6	-1.0
ANT-W63WS3	-4.3	-2.0	-3.1
ANT-W63WS4	-1.2	-1.0	-1.6

Efficiency (%)

Model	2400 MHz to 2485 MHz	5150 MHz to 5850 MHz	5925 MHz to 7125 MHz
ANT-W63WS1	58	62	59
ANT-W63WS2	83	89	84
ANT-W63WS3	40	66	58
ANT-W63WS4	80	83	74

Max Power

ANT-W63WS1	5 W
ANT-W63WS2	30 W
ANT-W63WS3	5 W
ANT-W63WS4	10 W

Weight

ANT-W63WS1	10.3 g (0.36 oz)
ANT-W63WS2	13.0 g (0.46 oz)
ANT-W63WS3	14.9 g (0.53 oz)
ANT-W63WS4	20.9 g (0.74 oz)

Product Dimensions

Model	A (Straight)	B (Bent 90°)	C	D	E
ANT-W63WS1	85.5 mm (3.37 in)	65.0 mm (2.56 in)	16.4 mm (0.65 in)	11.5 mm (0.45 in)	33.6 mm (1.32 in)
ANT-W63WS2	133.5 mm (5.30 in)	115.0 mm (4.50 in)	20.1 mm (0.79 in)	10.0 mm (0.39 in)	34.2 mm (1.35 in)
ANT-W63WS3	135.7 mm (5.34 in)	114.8 mm (4.52 in)	20.1 mm (0.79 in)	10.0 mm (0.39 in)	37.9 mm (1.50 in)
ANT-W63WS4	179.6 mm (7.10 in)	156.0 mm (6.14 in)	22.0 mm (0.87 in)	13.0 mm (0.51 in)	43.2 mm (1.70 in)

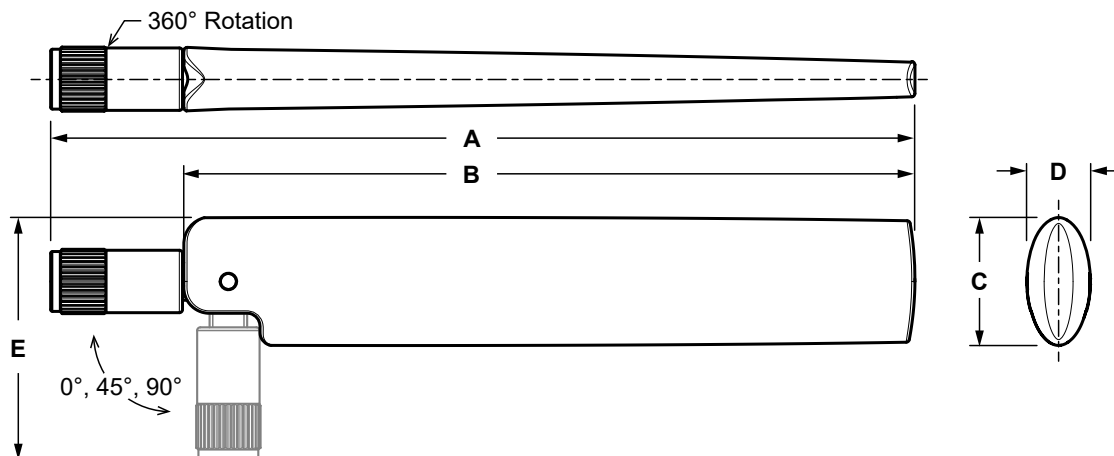


Figure 1. W63WSx Series Antenna Dimensions

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