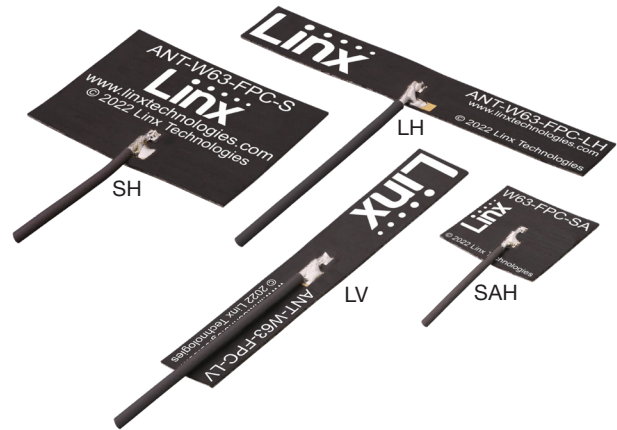


## ANT-W63-FPC Series Flexible Embedded WiFi 6/6E FPC Antennas

The Linx ANT-W63-FPC series antennas are adhesive flexible printed circuit (FPC) antennas for WiFi 6/WiFi 6E applications in the 2.4 GHz, 5 GHz and 6 GHz bands.

The ANT-W63-FPC series antennas provide a ground plane independent dipole internal/ embedded antenna solution and are offered in several profiles and sizes. The flexibility and adhesive backing makes the ANT-W63-FPC Series easy to mount in RF transparent (e.g. plastic) enclosures, enabling environmental sealing and for protection from antenna damage.

Connection is made to the radio via a coaxial cable terminated in MHF1/U.FL-type plug (female socket), or MHF4 plug (female socket) connector.



### Features

- Ground plane independent dipole antenna
- Adhesive backing permanently adheres to non-metal enclosures using 3M 467MP™/200MP adhesive
- Flexible to fit in challenging enclosures

### Applications

- WiFi/WLAN coverage
  - WiFi 6E, WiFi 6, WiFi 5, WiFi 4, 802.11b/g
- 2.4 GHz ISM applications, Bluetooth®, ZigBee®
- U-NII bands 1-8
- Internet of Things (IoT) devices
- Sensing and remote monitoring

**Table 1. Electrical Specifications (Common to All)**

Parameter	Value	Parameter	Value
Polarization	Linear	Impedance	50 Ω
Wavelength	1/2-wave	Electrical Type	Dipole
Radiation	Omnidirectional	Max Power	2 W

**Table 2. Electrical Specifications**

Part Number Series	Frequency Bands	VSWR	Peak Gain	Average Gain	Efficiency
ANT-W63-FPC-LH	2400 MHz to 2500 MHz	1.4	4.5	-0.6	90
	5150 MHz to 5895 MHz	1.7	6.3	-0.9	84
	5950 MHz to 7125 MHz	1.8	10.1	-1.4	78
ANT-W63-FPC-LV	2400 MHz to 2500 MHz	1.5	4.8	-1.1	79
	5150 MHz to 5895 MHz	1.6	6.3	-1.2	82
	5950 MHz to 7125 MHz	1.5	7.4	-1.5	77
ANT-W63-FPC-SH	2400 MHz to 2500 MHz	1.5	4.7	-0.6	90
	5150 MHz to 5895 MHz	1.6	7.8	-1.0	83
	5950 MHz to 7125 MHz	1.8	8.5	-1.3	81
ANT-W63-FPC-SAH	2400 MHz to 2500 MHz	3.4	0.6	-5.6	32
	5150 MHz to 5895 MHz	3.4	7.2	-2.6	64
	5950 MHz to 7125 MHz	2.4	6.3	-3.3	53

Electrical specifications and plots measured with the antenna on a 2 mm (0.08 in) thick plastic sheet.

Ordering Information

	Part Number	Antenna Size (L x W x H)	Cable Length	Connector
LH Series	ANT-W63-FPC-LH50UF	45 mm x 7 mm x 0.1 mm	50 mm (1.97 in)	U.FL
	ANT-W63-FPC-LH100UF	45 mm x 7 mm x 0.1 mm	100 mm (3.94 in)	U.FL
	ANT-W63-FPC-LH150UF	45 mm x 7 mm x 0.1 mm	150 mm (5.91 in)	U.FL
	ANT-W63-FPC-LH200UF	45 mm x 7 mm x 0.1 mm	200 mm (7.87 in)	U.FL
	ANT-W63-FPC-LH50M4	45 mm x 7 mm x 0.1 mm	50 mm (1.97 in)	MHF4
	ANT-W63-FPC-LH100M4	45 mm x 7 mm x 0.1 mm	100 mm (3.94 in)	MHF4
	ANT-W63-FPC-LH150M4	45 mm x 7 mm x 0.1 mm	150 mm (5.91 in)	MHF4
	ANT-W63-FPC-LH200M4	45 mm x 7 mm x 0.1 mm	200 mm (7.87 in)	MHF4
LV Series	ANT-W63-FPC-LV50UF	45 mm x 7 mm x 0.1 mm	50 mm (1.97 in)	U.FL
	ANT-W63-FPC-LV100UF	45 mm x 7 mm x 0.1 mm	100 mm (3.94 in)	U.FL
	ANT-W63-FPC-LV150UF	45 mm x 7 mm x 0.1 mm	150 mm (5.91 in)	U.FL
	ANT-W63-FPC-LV200UF	45 mm x 7 mm x 0.1 mm	200 mm (7.87 in)	U.FL
	ANT-W63-FPC-LV50M4	45 mm x 7 mm x 0.1 mm	50 mm (1.97 in)	MHF4
	ANT-W63-FPC-LV100M4	45 mm x 7 mm x 0.1 mm	100 mm (3.94 in)	MHF4
	ANT-W63-FPC-LV150M4	45 mm x 7 mm x 0.1 mm	150 mm (5.91 in)	MHF4
	ANT-W63-FPC-LV200M4	45 mm x 7 mm x 0.1 mm	200 mm (7.87 in)	MHF4
SH Series	ANT-W63-FPC-SH50UF	25.3 mm x 20.3 mm x 0.1 mm	50 mm (1.97 in)	U.FL
	ANT-W63-FPC-SH100UF	25.3 mm x 20.3 mm x 0.1 mm	100 mm (3.94 in)	U.FL
	ANT-W63-FPC-SH150UF	25.3 mm x 20.3 mm x 0.1 mm	150 mm (5.91 in)	U.FL
	ANT-W63-FPC-SH200UF	25.3 mm x 20.3 mm x 0.1 mm	200 mm (7.87 in)	U.FL
	ANT-W63-FPC-SH50M4	25.3 mm x 20.3 mm x 0.1 mm	50 mm (1.97 in)	MHF4
	ANT-W63-FPC-SH100M4	25.3 mm x 20.3 mm x 0.1 mm	100 mm (3.94 in)	MHF4
	ANT-W63-FPC-SH150M4	25.3 mm x 20.3 mm x 0.1 mm	150 mm (5.91 in)	MHF4
	ANT-W63-FPC-SH200M4	25.3 mm x 20.3 mm x 0.1 mm	200 mm (7.87 in)	MHF4
SAH Series	ANT-W63-FPC-SAH50UF	12.4 mm x 12.0 mm x 0.1 mm	50 mm (1.97 in)	U.FL
	ANT-W63-FPC-SAH100UF	12.4 mm x 12.0 mm x 0.1 mm	100 mm (3.94 in)	U.FL
	ANT-W63-FPC-SAH150UF	12.4 mm x 12.0 mm x 0.1 mm	150 mm (5.91 in)	U.FL
	ANT-W63-FPC-SAH50M4	12.4 mm x 12.0 mm x 0.1 mm	50 mm (1.97 in)	MHF4
	ANT-W63-FPC-SAH100M4	12.4 mm x 12.0 mm x 0.1 mm	100 mm (3.94 in)	MHF4
	ANT-W63-FPC-SAH150M4	12.4 mm x 12.0 mm x 0.1 mm	150 mm (5.91 in)	MHF4

Available from Linx Technologies and select distributors and representatives.

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