

2.4/4.9/5.8 GHz 3 dBi Multi-band Rubber Duck Antenna - TNC-Male Connector

The HyperLink FM51RD1003 series is a high performance tri-band rubber-duck antenna designed to operate from 2.4 GHz to 2.5 GHz, 4.9 GHz to 5.3 GHz and 5.7 GHz to 5.8 GHz which eliminates the need to purchase different antennas for each frequency. The tri-band design of this antenna helps reduce interference and noise since it will reject out-of-band signals between the three bands of this antenna. This omnidirectional “rubber-duck” antenna provides broad coverage and 3 dBi gain.

Measuring 7.79” long, this flexible antenna features a tilt-and-swivel connector which allows them to be used vertically, at a right angle, or any angle in-between. It is suitable as a replacement RF antenna for many wireless access points and routers that are equipped with similar type antennas. The FM51RD1003 features a TNC Male connector.

Configuration

Design	Rubber Duck
Gain	3 to 3 dBi
Polarization	Vertical
Connector Type	TNC Male Reverse Polarity
Number of Ports	1

Electrical Specifications

Description	Min	Typ	Max	Units
Input VSWR			2:1	
Impedance		50		Ohms
Gain		3		dBi
Input Power			50	Watts

Specifications by Frequency

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2.4-2.5	4.9-5.35	5.725-5.85			GHz
Gain	3	3	3			dBi
Horiz. Beam Width	360	360				Degrees
Vert. Beam Width	70	70				Degrees
Max Input Power	50					Watts

Mechanical Specifications

Radome Material	ABS
Size	
Length	8.1 in [205.74 mm]
Width	0.57 in [14.48 mm]
Height	0.57 in [14.48 mm]

Environmental Specifications

Temperature	
Operating Range	-40 to +60 deg C
Environment	UL-94HB

Features:

- Three frequency ranges in one antenna
- Flexible rubber duck design
- Tilt and swivel design
- SMA Male connector
- Provides better performance than most stock access point antennas

Applications:

- 2.4 GHz, 4.9 GHz and 5.8 GHz band applications
- IEEE 802.11a/b/g/n and 802.11ac WiFi access points and routers
- 4.9 GHz homeland security, public safety services, fire, police and security applications
- 5.8 GHz wireless video and security systems

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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

2.4/4.9/5.8 GHz 3 dBi Multi-band Rubber Duck Antenna - TNC-Male Connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2.4/4.9/5.8 GHz 3 dBi Multi-band Rubber Duck Antenna - TNC-Male Connector FM51RD1003](#)

URL: <https://www.fairviewmicrowave.com/multi-antenna-3-dbi-gain-tnc-fm51rd1003-p.aspx>

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