

3 dBi WideBand Rubber Duck Antenna 860-960 MHz RP-SMA Connector

The Fairview Microwave FM51RD1008 high performance 900 MHz omnidirectional "rubber-duck" antenna features a tilt-and-swivel Reverse Polarity SMA-Plug (RP-SMA) connector, allowing them to be used vertically, at a right angle, or any angle in-between. It is a coaxial sleeve design with an omni-directional pattern. It is ideally suited for 900MHz ISM band applications as well as cellular applications.

The high performance rubber-duck FM51RD1008 from Fairview Microwave, measuring 8.62" long, is a flexible antenna providing broad coverage and 3 dBi gain. It is suitable as a replacement RF antenna for 900MHz radios that are equipped with RP-SMA connectors such as wireless video transmitters and receivers, 900MHz digital spread spectrum radios and more.

This rubber duck antenna, as well as our wide selection of superior quality RF devices, ship same day. Contact our knowledgeable and friendly technical support and sales staff for your answers on antennas or other Fairview Microwave products.

Configuration

| | |
|----------------------|---------------------------|
| Gain | 3 to 3 dBi |
| Polarization | Vertical |
| Connector Type | SMA Plug Reverse Polarity |
| Number of Ports | 1 |
| Lightning Protection | DC Ground |

Electrical Specifications

| Description | Min | Typ | Max | Units |
|---------------------------------|-----|-----|-----|---------|
| Frequency Range | 860 | | 960 | MHz |
| Input VSWR | | | 2:1 | |
| Impedance | | 50 | | Ohms |
| Gain | | 3 | | dBi |
| Horizontal (Azimuth) Beam Width | | 360 | | Degrees |
| Vertical (Elevation) Beam Width | | 62 | | Degrees |
| Input Power | | | 50 | Watts |

Specifications by Frequency

| Description | Band 1 | Band 2 | Band 3 | Band 4 | Band 5 | Units |
|-------------------|-----------|--------|--------|--------|--------|---------|
| Range | 0.86-0.96 | | | | | GHz |
| Gain | 3 | | | | | dBi |
| Horiz. Beam Width | 360 | | | | | Degrees |
| Vert. Beam Width | 62 | | | | | Degrees |
| Max Input Power | 50 | | | | | Watts |

Mechanical Specifications

| | |
|-------------|---------------------|
| Size | |
| Length | 8.62 in [218.95 mm] |
| Width | 0.66 in [16.76 mm] |
| Height | 0.66 in [16.76 mm] |



Features:

- 900 MHz Omnidirectional
- Flexible Rubber Duck Antenna
- Reverse Polarity SMA-Plug (RP-SMA) Connector
- Tilt and Swivel Design

Applications:

- 900 MHz Digital Spread Spectrum Radios
- 900 MHz ISM Band
- 900 MHz Telemetry Products
- LoRA, IoT, M2M Applications
- Cellular Band Applications

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Weight 0.045 lbs [20.41 g]

Environmental Specifications

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

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

Plotted and Other Data

Notes:

3 dBi WideBand Rubber Duck Antenna 860-960 MHz RP-SMA 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: [3 dBi WideBand Rubber Duck Antenna 860-960 MHz RP-SMA Connector FM51RD1008](#)

URL: <https://www.fairviewmicrowave.com/wide-antenna-860-960-mhz-3-dbi-gain-sma-fm51rd1008-p.aspx>

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