

## 8 dBi Omni Antenna 900-928 MHz, N Type Female Fiberglass Radome, 1.5:1 Typ VSWR

The Fairview Microwave FM510M1016 is a high performance omnidirectional antenna designed for the 900 MHz ISM band. It is ideally suited for multipoint, Non Line of Sight (NLOS) and mobile applications where high gain and wide coverage is desired. Typical applications include 900MHz Wireless LAN, SCADA, Wireless Video Links, LPWAN/IoT/M2M, and 900MHz Cellular band applications.

This antenna features an integral N-Female type connector that mounts through the wall of an equipment enclosure. Included with the FM510M1016 is a dual u-bolt mast mounting kit. Consisting of a heavy-duty steel bracket and a pair of U-bolts, this kit allows installation on masts up to 2.0" in diameter.

This omni antenna's construction features a rugged 1.58" diameter fiberglass radome for durability, aesthetics and long service life. It is designed for all weather operation.

### Configuration

|                      |           |
|----------------------|-----------|
| Design               | Omni      |
| Gain                 | 8         |
| Polarization         | Vertical  |
| Cable Type           | Coax lead |
| Connector Type       | N Female  |
| Number of Ports      | 1         |
| Lightning Protection | DC Ground |

### Electrical Specifications

| Description                     | Min | Typ   | Max   | Units   |
|---------------------------------|-----|-------|-------|---------|
| Frequency Range                 | 900 |       | 928   | MHz     |
| Input VSWR                      |     | 1.5:1 | 1.5:1 |         |
| Impedance                       |     | 50    |       | Ohms    |
| Gain                            |     | 8     |       | dBi     |
| Horizontal (Azimuth) Beam Width |     | 360   |       | Degrees |
| Vertical (Elevation) Beam Width |     | 12    |       | Degrees |
| Input Power                     |     |       | 100   | Watts   |

### Mechanical Specifications

|                        |                                 |
|------------------------|---------------------------------|
| Radome Material        | Fiberglass                      |
| <b>Size</b>            |                                 |
| Radome Diameter        | 1.5 in [38.1 mm]                |
| Length                 | 63.5 in [161.29 cm]             |
| Width                  | 1.5 in [38.1 mm]                |
| Height                 | 1.5 in [38.1 mm]                |
| Mounting Mast Diameter | 1.2 to 2 in [30.48 to 50.80 mm] |
| Weight                 | 0.007 lbs [3.18 g]              |

### Environmental Specifications

|                    |                      |
|--------------------|----------------------|
| <b>Temperature</b> |                      |
| Operating Range    | -40 to +60 deg C     |
| Wind Loading       | 130 MPH [209.21 KPH] |



### Features:

- Superior all weather performance
- Rugged industrial grade design
- Lightweight fiberglass radome
- Integral N-Female connector
- Heavy-duty steel mounting bracket

### Applications:

- 900 MHz ISM band
- LPWAN, LoRA, IoT, M2M applications
- GSM, SCADA applications
- 900 MHz cellular band
- Point to multi-point and Non Line Of Sight (NLOS) applications

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

**Plotted and Other Data**

Notes:

8 dBi Omni Antenna 900-928 MHz, N Type Female Fiberglass Radome, 1.5:1 Typ VSWR 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: [8 dBi Omni Antenna 900-928 MHz, N Type Female Fiberglass Radome, 1.5:1 Typ VSWR FM510M1016](#)

URL: <https://www.fairviewmicrowave.com/8-dbi-omni-antenna-900-928-mhz-n-tyfm-female-1.5-1-typ-vswr-fm510m1016-p.aspx>

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