

# 1-Port Omnidirectional Antenna

154–174MHz



DS040352-1A

Model #: 104A-40F-00-00-07-N



## Description

These antennas feature a broad frequency band and rugged construction. Radiating elements are encased in a weather-resistant, low-loss fiberglass radome. The size and mounting fixtures allow for easy storage and fast installation. Ideal for use where reliability is of the utmost importance. With a sturdy and strong construction, these antennas have been designed for a long lifetime.

## Features

- Unity gain, broadband base station antenna
- Designed for fixation on supporting tubes with an outer diameter between 27–65 mm (1.1–2.6 in)
- Cable can be led inside or outside the mast tube
- Fiberglass radome fully encloses radiating elements for dependable service in all climates
- All metal parts are DC-grounded for lightning protection (DC-short across coaxial cable)

## Electrical Specifications

| Parameter                   | Value                                                    |
|-----------------------------|----------------------------------------------------------|
| Frequency Range (MHz)       | 154–174                                                  |
| Polarization                | Vertical                                                 |
| Gain                        | 0 dBd (2.2 dBi)                                          |
| Azimuth Beamwidth (3 dB)    | Omnidirectional                                          |
| Elevation Beamwidth (3 dB)  | 80°                                                      |
| Impedance (Ohms)            | 50Ω                                                      |
| VSWR                        | < 1.5:1                                                  |
| Bandwidth                   | 20 MHz                                                   |
| Maximum Input Power (Watts) | 500 W                                                    |
| Antistatic Protection       | All metal parts DC-grounded (Connector shows a DC-short) |
| HCM Code(s)                 | HCM000ND00, 040DE00                                      |

**TX RX Systems Inc.**

8625 Industrial Pkwy,

Angola, NY 14006

716.549.4700 [www.txrx.com](http://www.txrx.com)



## Mechanical Specifications

| Parameter                                           | Value                                        |
|-----------------------------------------------------|----------------------------------------------|
| Overall Height                                      | 1750 mm (68.9 in)                            |
| Mounting                                            | On 27–65 mm (1.1–2.6 in) diameter mast tube  |
| Antenna Weight                                      | Approx. 3 kg (6.6 lbs)                       |
| Wind Area                                           | 0.091 m <sup>2</sup> (0.98 ft <sup>2</sup> ) |
| Wind Load at 160 km/h                               | 115 N (26 lbf)                               |
| Connector Type                                      | (1x) N Female at Bottom                      |
| Radome Material                                     | Polyurethane-Coated Fiberglass               |
| Radome Color                                        | White RAL9003                                |
| Mounting Hardware                                   | Seawater-resistant aluminum, epoxy-coated    |
| Shipping Weight                                     | 5 kg (11 lbs)                                |
| Packing Dimensions<br><i>Length x Width x Depth</i> | 1750 x 110 x 110 mm (68.9 x 4.3 x 4.3 in)    |
| Shipping Comment                                    | Stainless Steel U-Bolts packed with antenna  |

## Environmental Specifications

| Parameter             | Value                          |
|-----------------------|--------------------------------|
| Operating Temperature | -30° to +70°C (-22° to +158°F) |
| Survival Wind Speed   | 200 km/h (124 mph)             |
| Ingress Protection    | IP56                           |