

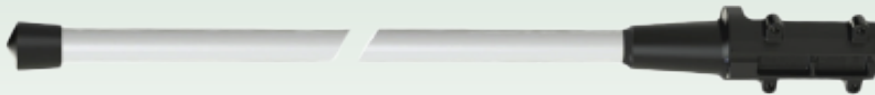
# 1-Port Omnidirectional Antenna

400–470MHz



DS040357-1A

Model #: 104A-63D-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
- The antenna is shipped with our “C” mast bracket, which is a universal, epoxy-coated mounting bracket made of non-corrosive aluminum. The accompanying U-bolts and fittings are made of stainless steel
- The antenna can be mounted on 27–65 mm (1.1–2.6 in) diameter mast tubes and it is possible to lead the cable either along the inside or on the outside of the mast tube
- The broad-banded antenna element is completely enclosed in a fiberglass shroud, which will ensure performance undisturbed by corrosive environments
- To substantially reduce noise caused by atmospheric discharges, all metal parts in the antenna are DC-grounded. Consequently, the antenna shows a DC-short across the coaxial cable
- This antenna is constructed to ensure long dependable service in all climates



## Electrical Specifications

Parameter	Value
Frequency Range (MHz)	400–470
Polarization	Vertical
Gain	0 dBd (2.2 dBi)
Azimuth Beamwidth (3 dB)	Omnidirectional
Elevation Beamwidth (3 dB)	60°
Impedance (Ohms)	50Ω
VSWR	< 1.5:1
Bandwidth	70 MHz
Maximum Input Power (Watts)	500 W
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	HCM000ND00, 030DE00

## Mechanical Specifications

Parameter	Value
Overall Height	1100 mm (43.3 in)
Mounting	On 27–65 mm (1.1–2.6 in) diameter mast tube
Net Weight - Antenna Only	Approx. 2.4 kg (5.3 lbs)
Wind Area	0.042 m <sup>2</sup> (0.45 ft <sup>2</sup> )
Wind Load at 160 km/h	49 N (11 lbf)
Connector Type	(1x) N Female at Bottom
Radome Material	Polyurethane-Coated Fiberglass
Radome Color	White RAL9003
Mounting Hardware Material	Mounting bracket: Seawater-resistant aluminum, epoxy-coated
Shipping Weight	3.5 kg (7.7 lbs)
Packing Dimensions <i>Length x Width x Depth</i>	1300 x 125 x 125 mm (51.2 x 4.9 x 4.9 in)
Shipping Comment	Stainless Steel U-Bolts packed with antenna

## Environmental Specifications

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