

# 1-Port Omnidirectional Antenna



DS040361-1A

Model #: 104A-68D-03-00-07-N



## Description

This antenna with a broad frequency band and rugged construction is ideal for both base station and marine deployments. 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

- 3 dBd (5.2 dBi), vertically polarized, omnidirectional base station and marine antenna, covering the 467–485 MHz band
- Shipped with the sturdy “LW” mast mount – a lightweight, multipurpose, epoxy-coated mounting bracket made of non-corrosive aluminum
- The accompanying U-bolts and fittings are made of stainless steel
- Can be mounted vertically or horizontally on 16–54 mm (0.6–2.1 in) diameter mast tubes
- The carefully designed radiating element is sealed within a high-quality, fiberglass radome with low windload, 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
- The exceptional mechanical capabilities of this antenna ensure long dependable service in all environments



## Electrical Specifications

Parameter	Value
Frequency Range (MHz)	467–485
Polarization	Vertical
Gain	3 dBd (5.2 dBi)
Azimuth Beamwidth (3 dB)	Omnidirectional
Elevation Beamwidth (3 dB)	30°
Impedance (Ohms)	50Ω
VSWR	< 1.5:1
Bandwidth	18 MHz
Maximum Input Power (Watts)	300 W
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	HCM000ND00, 015DE50

## Mechanical Specifications

Parameter	Value
Overall Height	1340 mm (52.8 in)
Diameter at Top End	Ø25 mm (1.0 in)
Diameter at Bottom End	Ø25 mm (1.0 in)
Mounting	On 16–54 mm (0.6–2.1 in) diameter mast tube
Net Weight - Antenna Only	Approx. 2.4 kg (5.3 lbs)
Wind Area	0.032 m <sup>2</sup> (0.34 ft <sup>2</sup> )
Wind Load at 160 km/h	40 N (9 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; Clamps: Stainless steel
Shipping Weight	2.65 kg (5.8 lbs)
Packing Dimensions	1475 x 50 x 2 mm (58.1 x 2.0 x 0.1 in)
Shipping Comment	Universal stainless steel mast mounting clamp (LW-SS-1) packed separately

## Environmental Specifications

Parameter	Value
Operating Temperature Range	-40° to +70°C (-40° to +158°F)
Survival Wind Speed	200 km/h (124 mph)
Ingress Protection	IP66