

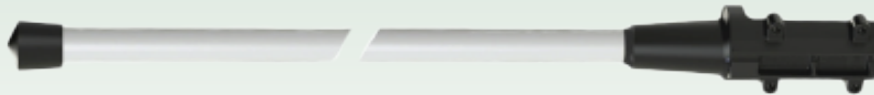
# 1-Port Omnidirectional Antenna

450-512MHz



DS040360-1A

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



## Description

These antennas feature a very broad frequency band and rugged construction. Radiating elements are constructed of copper alloy, encased in a weather-resistant, low-loss fiberglass radome. The “Heavy Duty” is permanently affixed to a unique mounting fixture which allows mounting on top of or along-side of most vertical supports. Due to their wide bandwidth, they are ideal for use as emergency backup antennas. Their size and mounting fixtures allow for easy storage and fast installation.

## Features

- Broadband – reduces backup inventory and the need for multiple antennas
- Fiberglass radome protects radiating elements in hostile environments
- Copper elements maximize system performance while minimizing the possibility of intermod

## Electrical Specifications

Parameter	Value
Frequency Range MHz	450-512MHz
Polarization	Vertical
Gain dBd (dBi)	0 (2)
Azimuth Beamwidth (3 dB)	Omnidirectional
Elevation Beamwidth (3 dB)	80°
Impedance Ohms	50Ω
VSWR	≤ 1.5:1
Bandwidth	24 MHz
Maximum Input Power Watts	300 W
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)



## Mechanical Specifications

Parameter	Value
Overall Height mm (in) Approx.	1050 (41.3)
Diameter mm (in)	25.5 (1.0)
Mounting	On 16-54 mm (0.6-2.1 in) diameter mast tube
Net Weight - Antenna Only kg (lbs) Approx.	1.5 (3.3)
Wind Area m	2 (ft <sup>2</sup> ) 0.029 (0.31)
Wind Load at	160 km/h (99 mph) N (lbf) 33.6 (7.6)
Connector Type	(1x) N Female at Bottom
Connector Torque Nm	0.7-1.1
Torque Max Nm	3
Radome Material	Polyurethane-Coated Fiberglass
Radome Color	Marine White RAL9010 Mounting bracket: Stainless acid-proof steel (AISI 316L)
Mounting Hardware Material	U-bolts and fittings: Stainless steel (AISI 304)
Shipping Weight kg (lbs)	0.65 (1.4)
Packing Dimensions mm (in) Length x Diameter x Thickness	700 x 50 x 2 (27.6 x 2.0 x 0.1)

## Environmental Specifications

Parameter	Value
Operating Temperature Range degrees -	35° to +70° C (-31° to +158° F)
Survival Wind Speed km/h (mph)	200 (124)
Ingress Protection	IP66