

1-Port Omnidirectional Antenna

146–164MHz



DS040346-1A

Model #: 104A-38E-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)	146–164
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	18 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.

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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 ² (0.98 ft ²)
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 <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

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