



# 746 to 788 MHz Industrial Vertical Polarization Omni Antenna



Industrial applications require deployment in harsh environments where equipment must survive and operate at top performance during many years of mission critical use.

Cambium's line of premium-grade industrial antennas is designed with the following key features and capabilities:

- Designed to withstand heavy ice, high wind, wide temperature swings and other harsh conditions.
- Removable Drain Plug for upright or inverted mounting
- Mounting bracket included
- Optional installation kit for complete turn-key deployments
- Integrated in Cambium's LINKPlanner software for network planning of capacity and availability

## SPECIFICATIONS

### MODELS

NB-N500053A-GL	Omni Antenna, 746-788 MHz, VPOL, 5.5 dBi
NB-N500041A-GL	(Optional) Antenna Installation Kit, 50 foot; does not include antenna

## SPECIFICATIONS

PERFORMANCE	NB-N500053A-GL
Frequency Range	746 to 788 MHz
Gain	5.5 dBi nominal
Polarization	Single - Vertical
SWR	< 1.433
Return Loss	> 15 dB
Elevation 3dB Beamwidth	30 degrees
Maximum Input Power	250 W average
Nominal Impedance	50 ohms

### PHYSICAL / MECHANICAL

Dimensions - Height	1295 mm (51 inches)
Dimensions - Diameter	Radome: 2 inches (51 mm)
Weight	3.4 lbs. (1.54 kg)

### CONSTRUCTION

Materials	Radome: Pultruded Fiberglass
Connector	Bulkhead N-type Female
Mounting Bracket	2 inch (50 mm) pole mount

### ENVIRONMENTAL

Wind Survival	125 mph (200 km/hour)
Temperature Range	-40F to +158F (-40C to +85C)
Bending Moment at rated wind	92.3 lb-ft
Lateral thrust at rated wind	43.4 lb-ft
Equivalent flat plate area	0.434 ft <sup>2</sup>

### OPTIONAL INSTALLATION KIT CONTENTS

- 50 ft RG213 cable with N-type female connector
- grounding kit
- weatherproofing kit (includes (6) rolls of butyl rubber tape, (2) rolls of 3/4" electrical tape, (1) roll of 2" electrical tape)
- cable ties (qty. 5)
- RF bulk-head mount surge suppressor, DC BLOCK Lightning Protector
- short 2' N-type Male to TNC Male jumper to go from surge suppressor inside cabinet over to the radio
- loose N-type connector for re-terminating cable if shorter length is desired