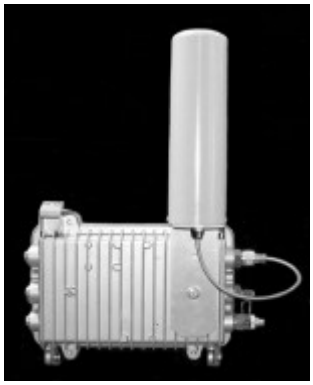
Antenna Specification Sheet

TA-2412N-3 Bidirectional

The TA-2412N-3 is a vertically polarized bidirectional antenna intended to mount to the APU Enclosure. The antenna consists of a printed dipole array enclosed in a UV stabilized ASA radome for superior weatherability. It is designed for wireless data in the ISM band and is at DC ground to aid in lightning protection.



Electrical Specifications

Frequency Range: 2400-2483 MHz
Gain: 9 dBi (peak)
VSWR: 1.5:1 max.
Polarization: Vertical
Power: 5 Watts
H-Plane Beamwidth: 60 degrees
E-Plane Beamwidth: 28 degrees
Front to Back Ratio: N/A
Cross Pol. Descrimination: 20 dB min.
Electrical Beamtilt: N/A
Impedance: 50 ohms nominal
Termination: N male

Mechanical Specifications

Length: 10.5 in. (267 mm)
Diameter: 3 in. (76 mm)
Width: N/A
Depth: N/A

Weight (incl. hardware): 1.5 lb. (0.7 kg)
Rated Wind Velocity: 125 mph (200 km/h)
Horizontal Thrust at rated wind: 8.01 lb. (3.6 kg)

Mechanical Tilt: N/A
Mounting: Mounts to APU Enclosure

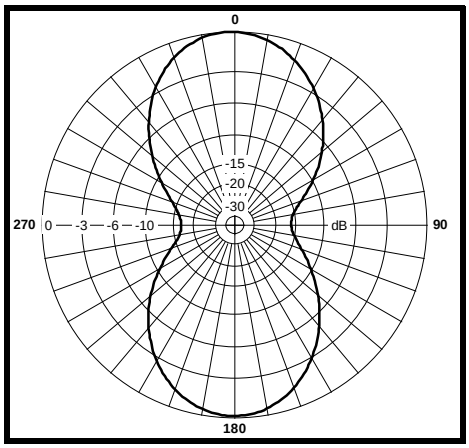
Pig-Tail Length: 16 in. (406.4mm)

Material Specifications

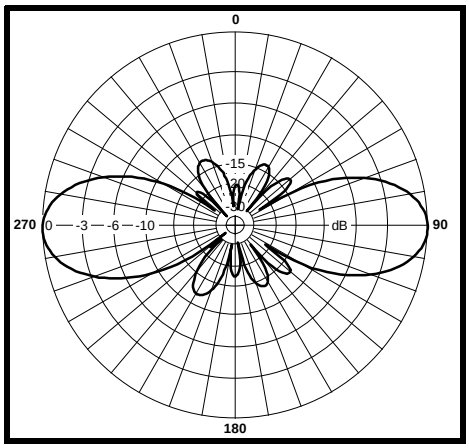
Radiating Elements: Plated copper on PCB
Reflector: Irridited aluminum
Radome: Gray UV stabilized ASA
Mounting Hardware: Aluminum and Stainless steel

Radiation Patterns/Masks

H-Plane



E-Plane



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