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.

**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

**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. Discrimination:** 20 dB min.
- **Electrical Beamtilt:** N/A
- **Impedance:** 50 ohms nominal
- **Termination:** N male

**Radiation Patterns/Masks**

**H-Plane**

**E-Plane**

Specifications subject to change without notice
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