

# 2.4 Meter Troposcatter Antenna



**Extremely light-weight and rugged with exceptional stiffness for optimal performance, even under high wind conditions**

## 2.4 Meter Troposcatter Antenna

The 2.4 meter antenna is an ultra-light weight, high gain portable system with automatic pointing capability. The rugged, rigid, and easily deployable flyaway antennas are designed for worldwide operation. The antennas are supplied with a troposcatter band feed assembly operating in the 4.4 to 5.0 GHz frequency range, but can operate from 7.125 to 7.725 GHz by changing the feed-horn only. The antennas are composed of carbon fiber structure, segmented reflector panels, and are equipped with motorized positioners.

### Key Features:

- 2.4 meter C-Band
- Adjustable elevation to 10 feet
- $\pm 60$  degree range of movement
- Auto point accuracy to 0.2 degrees
- Operational in 50 MPH winds
- Gusting to 67 MPH winds
- User friendly GUI
- Set up in 30 minutes, 2 operators



### Technical Specifications:

Frequency	4.4 GHz to 5.0 GHz
Reflector Diameter	2.4 meters
Antenna Efficiency	> 60%
VSWR	≤ 1.06 : 1
RF Power	2 kW CW
Antenna Gain Mid Band	39.3 dB minimum @ 4.7 GHz
Radiation Pattern	per ITU-R F.699 reference radiation pattern recommendation
Elevation Range	-5 to +45 degrees, minimum, when deployed
Azimuth Range	+/- 60 degrees, at 10 ft., when deployed
Pointing Accuracy	/- 0.2 degrees (Azimuth and Elevation)
GUI	Web based graphical user interface
Input Power	48 VDC

### Antenna Height:

Retracted	1.83 meters (6 feet)
Extended	3.05 meters (10 feet)

### Environmental:

Operating Wind Speed	50 MPH sustained (80 KPH), 67 MPH gusting (108 KPH)
Erecting or Lowering Wind Speed	25 MPH sustained (40 KPH), 34 MPH gusting (54 KPH)

The adjustable elevation from 6 to 10 feet eliminates the need to place the terminal on top of structures or containers and increases link distance from existing transportable systems.



## About Comtech

Comtech Technologies Corp. (Nasdaq: CMTL) is a leading global provider of next-generation 911 emergency systems and secure wireless communication technologies to commercial and government customers around the world. Comtech designs produces and markets advanced and secure wireless solutions.