



## Compact Over-the-horizon Mobile Expeditionary Terminal

### Comtech's Smallest Troposcatter System

The Comtech **COMET™ (Compact Over-the-horizon Mobile Expeditionary Terminal)** is the smallest and lightest modular man-packable troposcatter system. With an operational configuration weighing only 50 lbs, the Comtech **COMET™** can be airline checked, automobile transported, and carried into the field. The Comtech **COMET™** is designed for 60 km BLOS links at data rates of 5 to 60 Mbps.

Designed using the industry leading CS67PLUS troposcatter radio, the Comtech **COMET™** can operate single stream from 946 kbps to 105 Mbps or dual stream from 1.892 to 210 Mbps (actual throughput based on terrain). With data compression, the radio can reach up to 900 Mbps. This lightweight, highly portable system can be easily deployed in a dual diversity, single antenna configuration. Adaptive Coding and Modulation (ACM) can optimize average throughput over time. With Comtech's standard 1 m antenna, the Comtech **COMET™** can be set up by one person in as little as 15 minutes.

The feature-rich Comtech **COMET™** can easily be linked with other Comtech tactical, mobile, and fixed terminals to provide the ideal Beyond Line-of-Sight troposcatter system for tactical Military, Disaster Recovery, and Emergency Restoral Communications anywhere in the world.

Each system consists of the CS67PLUS radio as well as 10 watt SSPAs, LNAs, and duplexers all mounted to the 1 m antenna.

#### COMET

#### Standard Features

- Designed to provide 5 to 60 Mbps on links up to 60km (terrain dependent)
- Troposcatter optimized, powerful LDPC Forward Error Correction
- IP interface
- ACM to maximize average throughput
- Adaptive link power control to radiate power when not required
- Easy-to-use Graphical User Interface for local and remote monitoring and configuration with operator's smart phone or optional tablet
- Built-in Path Analysis Tool (optional)
- 1 m lightweight antenna standard, tripod mounted

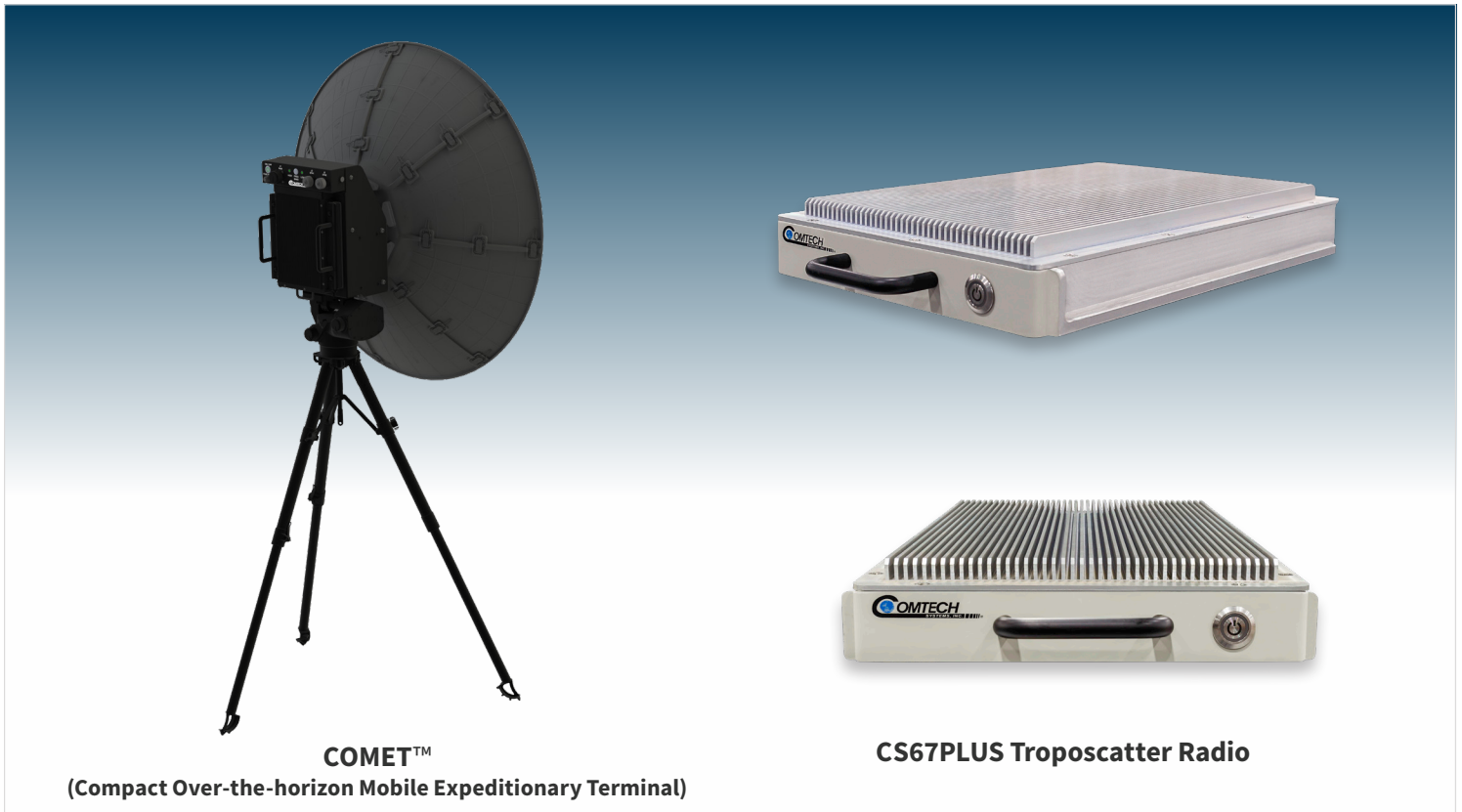
[www.comtechsystems.com](http://www.comtechsystems.com)

# Compact Over-the-horizon Mobile Expeditionary Terminal

## Technical Specifications

Frequency Range	4.4 to 4.65 GHz and 4.75 to 5.0 GHz in 100 kHz increments
Transmit Output Power	10 watts
Data Interface	100/1000 Base-T Ethernet
Terminal Data Rate	Single Stream: 946 kbps to 105.194 Mbps Dual Stream: 1.892 to 210.388 Mbps (actual throughput based on terrain)
Diversity Order	Dual Frequency and Polarization Single
Monitor & Control	Comtech integrated web-based GUI
Engineering Orderwire	Modem GUI Chat
Built in Test (BIT)	Full set of alarms and parameters monitored by user smart phone or optional tablet
<b>DC Power</b>	
Voltage	24 VDC
Consumption	125 Watts

Environmental	
Operating temperature	-20°C (-4°F) to +60°C (+140°F)
Storage temperature	-50°C (-58°F) to +70°C (+158°F)
Humidity	Up to 100% condensing
Altitude	10,000 m
Dimensions	
Electronics Hub Case	25.08"W x 15.7"H x 19.47"D
Reflector/Tripod Case	24.66"W x 24.92"H x 14.15"D
Weight	
Electronics Hub Case	59.4 lbs (26.9 kg)
Reflector/Tripod Case	56 lbs (25.4 kg)



**COMET™**

(Compact Over-the-horizon Mobile Expeditionary Terminal)

**CS67PLUS Troposcatter Radio**

Specifications are subject to change