

# Ligado MSATe Mobile Satellite Radio

The Ligado MSATe Mobile Satellite Radio is a powerful and flexible communications tool that connects government and enterprise customers at the push of a button anywhere in North America. Designed for use on the Ligado Mobile Satellite Services Network, the MSATe supports continent-wide Push-to-Talk (PTT) Two-Way Radio and Telephony Voice communications. In addition, the Ligado MSATe provides GPS capability and flexible interconnectivity to a variety of third-party interoperability interfaces, extending the reach of traditional Land Mobile Radio technology.

All MSATe components are backward compatible with all previous MSAT G2 Radios and talkgroups. The MSATe Mobile Satellite Radio consists of 3 main components; the Radio Transceiver Unit, the L-Band Antenna Unit and the Dual-Service Handset which serves as the user interface.

The MSATe comes in three configurations, Fixed, Land Mobile and Maritime.

## MSATe MOBILE SATELLITE RADIO FEATURES

### Radio Transceiver Unit

- Handset Port (RJ-45)
- Ethernet Port (RJ-45) supports software upgrades.
- DB9 Serial Port support supports GPS Output, cross banding interface for interoperability with Land Mobile Radio (LMR) systems and Dial-Up Data (4.8 kbps)
- External Speaker Port
- Power Connector

### L-Band Antenna

- 2-Axis Platform for Fixed or Vehicular use
- 3-Axis Platform for Maritime use
- Built in GPS Receiver

### Dual-Service Handset

- Two-Way Radio (PTT) and Circuit Switched Voice and Data service capability.
- GPS Display Feature
- Keypad & Display Backlight Control
- Headset Port



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TECHNICAL SPECIFICATIONS	
Weight	TU = 1.43 lb / 0.65 kg Handset = 0.84 lb / 0.38 kg Land Mobile Antenna c4.6 lb / 2.09 kg Maritime Antenna = 10.3 lb / 4.67 kg
Dimensions	TU (WxHxD) = 6.5" x 5.5" x 1" / 165mm x 140mm x 27mm Handset (WxHxD) = 2.8" x 6.9" x 1.6" / 70mm x 175mm x 40mm Land Mobile Antenna (DIAXH) = 9.8" x 3.9" / 250mm x 100mm Maritime Antenna (DIAXH) = 11" x 11" / 280mm x 280mm
Power	Input voltage: 12 to 15.6 VDC Input current: 6 Amps max.
Fuses	Fuse: ATM, Mini Fuse 7.5A, 32V, 12t: >40<=70 (Littelfuse part num. 029707.5)  CAUTION: For continued protection against risk of fire, replace with only the same type and rating of fuse.
Humidity	98% at 100.4°F (38°C)
Operating Temperature	TU = 98% at 100.4°F (38°C)-22°F (-30°C) to +131°F (+55°C) Handset = -4°F (-20°C) to +158°F (+70°C) Antenna = -22°F (-30°C) to +109°F (+43°C)
Storage Temperature	TU = -40°F (-40°C) to +185°F (+85°C) Handset = -40°F (-40°C) to +185°F (+85°C) Antenna = -67°F (-55°C) to +185°F (+85°C)
Dust	In accordance with SAE J1455 section 4.7
Rain	Antenna = Precipitation rate of 2"/hour