



MSAT-G2 FEATURES

Dual-Service Handset

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

Radio Transceiver Unit

- Compact Form Factor
- Handset Port (RJ-45)
- Ethernet Port (RJ-45)
 - > Software Upgrades
- DB9 Serial Port
 - > GPS Output
 - > Interconnectivity to 3rd Party Interfaces
 - > Dial-Up Data (4.8 kbps)
- External Speaker Port
- Power Connector

LightSquared offers the MSAT-G2 Mobile Satellite Radio, a powerful and flexible communications tool that works where you do.

Designed for use on the SkyTerra-1 Space Based Network, the MSAT-G2 supports continent-wide Push-to-Talk (PTT) Two-Way Radio and Circuit Switched Voice and Data communications. In addition, the MSAT-G2 provides GPS capability and flexible interconnectivity to a variety of 3rd party interoperability interfaces, extending the reach of traditional Land Mobile Radio technology.

L-Band Antenna

- Low profile Land Mobile 2-Axis Platform or;
- Maritime 3-Axis Platform
- 16 Channel GPS Receiver (inside L-Band antenna)



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SPECIFICATIONS

Network Specifications

Communication Modes	Two-Way Radio half-duplex digital Voice full-duplex digital
Frequencies	Transmit = 1626.5-1660.5 MHz Receive = 1525.0-1559.0 MHz
Channel Spacing	6 KHz



HUGHES 2100 TU - Front Panel



HUGHES 2100 TU - Back Panel

Hardware Specifications

Weight	HUGHES 2100 Transceiver Unit = 0.8 lbs DT-200 Series Handset = 0.6 lbs SpaceCom Land Mobile Antenna = 4.6 lbs SpaceCom Maritime Antenna = 10.3 lbs
Dimensions	HUGHES 2100 TU = (W) 6.5" x (H) 1.1" x (D) 5.6" DT-200 Series Handset = (W) 2.9" x (H) 1.4" x (D) 6.8" SpaceCom Land Mobile Antenna = (Diameter) 9.8" x (Height) 3.9" SpaceCom Maritime Antenna = (Diameter) 11" x (Height) 11"
Humidity	98% at 100.4°F (38°C)
Operating Temperature	Antenna = -22°F(-30°C) to +109°F(+43°C) TU = -22°F(-30°C) to +131°F(+55°C)
Dust	In Accordance with SAE J1455 section 4.7
Rain	Antenna = Precipitation rate of 2" /hour
Power	Primary Voltage = 12V DC Nominal Input current 3 Amps max



DT-200 Series Handset