

Hughes 4510 Satellite/Cellular Hybrid Terminal



High efficiency, all-IP terminal for satellite and cellular networks

The Hughes 4510 dual mode terminal provides reliable connectivity over satellite and cellular networks for mobile, land, and maritime packet data network applications.

The Hughes 4510 terminal delivers affordable, end-to-end IP data connectivity for industrial IOT applications in connected vehicle, industrial, fisheries, resource extraction, environmental monitoring, and Smart-Grid monitoring, among others. The Hughes 4510 dynamically routes IP traffic between the terrestrial and satellite networks based upon path availability, allowing for ubiquitous service for critical applications.

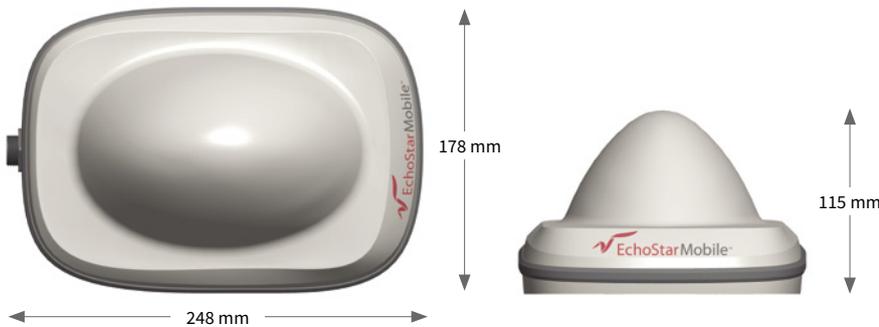
The low standby power consumption of the Hughes 4510 terminal makes it possible to provide end-to-end IP connectivity to sites that are otherwise off the grid. It is well suited for power-challenged locations that rely upon solar-battery arrays with limited power budgets.

The Hughes 4510 terminal is environmentally sealed for long-term outdoor installation or on a vehicle, fixed site, or boat. The installation consists of a single 4510 unit that can be placed at the end of a single cable carrying Ethernet and power. The SIM card is mounted securely under the SIM cover.

Features

- S-band satellite operation with data rates up to 200 kbps forward and 150 kbps return
- Omnidirectional satellite antenna allows mobile communications with no moving parts
- Global LTE CAT-1 operation enabled by either an embedded-SIM (eSIM) or a replaceable 2FF SIM
- Integrated cellular antenna
- Integrated connection watchdog to ensure “always-on” network connectivity, no manual intervention required to recover from an outage
- Supports remote terminal management and firmware upgrades
- Auto-on/auto-context activation automatically restores power and connection following loss of power and/or network issue
- Low power consumption Transmit: < 16 W (SAT only); < 6 W (CELL only); < 20 W (SAT & CELL)
- Receive: < 10 W
- Idle (SAT only): < 1.3 W
- Idle (SAT & CELL): < 3 W
- Off (Remote switch control): < 10 mW
- Simple installation: no PC required
- Terminal can be vehicle-, pole-, or mag-mounted
- Weatherproof (IP-67) enclosure
- Built-in GNSS receiver

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Hughes 4510, Available with vehicle mount, pole mount, and mag mount accessories

Interfaces

- Ethernet connection
- Nominal 12V power input voltage; power supply must be able to handle 3.5A peak current
- USB for connection to configuration PC
- SIM connectors under cover
- Option: Serial data and GPIO options

Package Contents

- Hughes 4510 terminal
- Quick Start Guide

Accessories

- Connection cables
- Vehicular, pole, or mag mounting kits
- Extended warranty options

Technical Specifications

SAT Transmit Freq	1995–2010 MHz
SAT Receive Freq	2185–2200 MHz
LTE bands	1, 2, 3, 4, 5, 7, 8, 12, 18, 19, 20, 28
7-bands UMTS bands	800, 850, 900, 1700/2100 (AWS), 1800, 1900 and 2100 MHz (bands 1, 2, 4, 5, 8, 9, 19)
GSM Bands	850, 900, 1800, 1900
Fallback support for	GPRS/EDGE/HSPA+
GNSS Support	GPS
Terminal Weight	1.5 kg
Terminal Dimensions (without connector)	248 x 178 x 115 mm
Operating Temp	-25 to +65 °C
Storage Temp	-40 to +80 °C
Humidity 95%	RH at 40 °C
Wind loading Survival	200 km/h
Water and Dust	IP-67
Input Voltage +12V	(vehicle)



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