Hughes 4500 S-band Terminal





High Efficiency, all-IP terminal for EchoStar Mobile network

The Hughes 4500 terminal provides reliable connectivity over satellite networks for mobile, land, and maritime packet data network applications.

The Hughes 4500 terminal delivers affordable, end-to-end IP data connectivity for applications in connected vehicle, industrial, fisheries, resource extraction, environmental monitoring, and Smart-Grid monitoring among others.

The low standby power consumption of the Hughes 4500 terminal makes it possible to provide end-to-end IP connectivity to sites that are otherwise off the grid. It is suited to power-challenged locations that rely upon solar-battery arrays with sensitive power budgets.

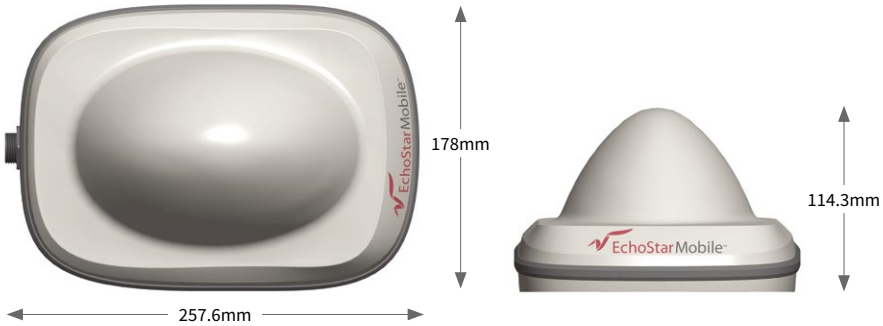
The Hughes 4500 terminal is environmentally sealed for long-term outdoor installation or on a vehicle, fixed site, or small boat. The installation consists of a single 4500 unit that can be placed at the end of a single cable carrying Ethernet and power. The SIM card is mounted securely inside the 4500 unit.

Features

- S-band satellite operation
- Omni directional antenna
- Designed for mobile operations
- Integrated watchdog to ensure “always-on” network connectivity, no manual intervention required to recover from an outage
- Supports remote terminal management
- Auto-on/auto-context activation automatically restores power and connection following loss of power and/or network issue
- Low power consumption
  - Transmit: < 16 W
  - Receive: < 8 W
  - Idle: ~1 W
  - Off (Remote switch control): 10 mW
- Simple installation; no PC required
- Terminal can be vehicle-, pole-, or mag-mounted
- Weatherproof integrated omni antenna element
- Built-in GNSS receiver

EchoStarMobile™

Hughes 4500
S-band Terminal



Hughes 4500, Available with vehicle mount, pole mount, and mag mount accessories

Interfaces

- Ethernet connection
- Nominal 12V power
- USB for connection to configuration PC
- SIM connector under cover
- Option: Serial data and GPIO options

Package Contents

- Hughes 4500 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
GNSS Support	GPS, GLONASS
Terminal Weight	1.2 kg
Terminal Dimensions	245 x 175 x 155 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-66
Input Voltage	+12V (vehicle)
Firmware Upgrades	Over the air or local

EchoStarMobile™

Want to know more?

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About EchoStar: EchoStar Corporation (NASDAQ: SATS) is a premier global provider of satellite communication solutions. Headquartered in Englewood, Colo., and conducting business around the globe, EchoStar is a pioneer in secure communications technologies through its Hughes Network Systems and EchoStar Satellite Services business segments. For more information, visit Echostar.com. Follow @EchoStar on Twitter.