HUGHES
An EchoStar Company

DATASHEET

HL1100W Hughes LEO Terminal

The Hughes HL1100W User Terminal (UT) includes a low-profile Electronically Steered Antenna (ESA) that represents the leading edge of Low Earth Orbit (LEO) antenna technology. The HL1100W ESA is a self-aligning terminal with a built-in modem and Wi-Fi. It has no moving parts and is optimized for operation over the OneWeb Ku-band LEO satellite constellation – providing access to affordable, fast, high bandwidth and low latency communications service. The HL1100W UT is ideal for a variety of applications for everyone, everywhere, all the time.

The HL1100W ESA is designed for the outdoor environment. It is lightweight, low-power, weather-tight and easy to install and maintain. It is constructed with a durable aluminum chassis and is configured to function right out of the box, self-pointing to the satellite constellation. The HL1100W UT is compact, easy to install and makes optimal use of the OneWeb system capabilities for low latency and high speeds.





The HL1100W User Terminal includes the following Indoor Unit (IDU).

- HL1100W-IDU: Wi-Fi 6 router with two GigE LAN ports, MoCA adapter for ethernet over coax and external power supply.

RF Specifications

TX Frequency	14.0 GHz to 14.5 GHz
RX Frequency	10.7 GHz to 12.7 GHz
Radio Mode	Half Duplex

Performance*

Peak Downlink Data Rate	75 Mbps
Peak Uplink Data Rate	14 Mbps
EIRP	+36.6 dBW (Dual Carrier)
G/T	Up to 11.3 dB/K

Environmental and Mechanical Specifications

Operating Temperature	-40 °C to +55 °C (-40 °F to +131 °F)
Outdoor Unit (ODU) Dimensions	59.8 cm x 40.2 cm x 6.0 cm (23.5 in. × 15.8 in. × 2.4 in.)
ODU Weight	10.6 kg, (23.3 lbs.)
ODU Power	130W (typical)
Indoor Power Supply	100 V to 240 V AC DC power options available
IFL Cable Length	Up to 30.5m (100 ft.) with RG-6 coax, RG-11 coax for longer distances
Agency Compliance:	CE, R&TTE, FCC, Anatel, UKCA
Safety Compliance:	UL, CE, IEC

Network Configuration

Network	OneWeb Satellite Constellation
Network features	IP, differentiated QoS, multi-APN
Wi-Fi	Wi-Fi 6 (optional)

**Performance subject to network configuration. Please consult your Eutelsat OneWeb contact for service offerings in your region.*

HUGHES
An EchoStar Company
11717 Exploration Lane Germantown, MD 20876 USA
www.hughes.com

HL1100W HUGHES LEO TERMINAL
©2025 Hughes Network Systems, LLC.
All information is subject to change. All rights reserved.
H69697 APR 25