

## HL1100 Hughes LEO Terminal

The Hughes HL1100 User Terminal (UT) includes a low-profile Electronically Steered Antenna (ESA) that represents the leading edge of Low Earth Orbit (LEO) antenna technology. The HL1100 ESA is a half-duplex, self-aligning terminal with a built-in modem. It has no moving parts and is optimised for operation over the OneWeb Ku-band LEO satellite constellation – providing access to affordable, fast, high bandwidth and low latency communications service. The HL1100 UT is ideal for a variety of applications for everyone, everywhere, all the time.

The HL1100 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 aluminium chassis and is configured to function right out of the box, self-pointing to the satellite constellation. The HL1100 UT is compact, easy to install, and makes optimal use of the OneWeb system capabilities for low latency and high speeds.



### RF Specifications

TX Frequency	14.0 GHz to 14.5 GHz
RX Frequency	10.7 GHz to 12.7 GHz
Duplexity	Half

### Performance

Peak Downlink Data Rate	57 Mbps
Peak Uplink Data Rate	14 Mbps

### Environmental and Mechanical Specifications

Operating Temp	-40 °C to +55 °C
ESA Dimensions	23.5 in. × 15.8 in. × 3.0 in.
ESA Weight	27 lbs.
ESA Input DC Voltage	54.7V DC (nominal)
DC Power Consumption	170W max
Indoor Power Supply	100 V to 240 V AC
IFL Cable Length	220 ft (max)
IFL Cable Type	Single RG-6, 75Ω, F-type connector
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)



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.