

HL1120 Hughes LEO Terminal

The Hughes HL1120 User Terminal (UT) includes a low-profile Electronically Steered Antenna (ESA) that represents the leading edge of Low Earth Orbit (LEO) antenna technology. The HL1120 ESA is a full-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 HL1120 UT is ideal for a variety of applications for everyone, everywhere, all the time.

The HL1120 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 HL1120 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	Full

Performance

Peak Downlink Data Rate	195 Mbps
Peak Uplink Data Rate	32 Mbps

Environmental and Mechanical Specifications

Operating Temp	-40 °C to +55 °C
ESA Dimensions	23.5 in. × 32.6 in. × 4.4 in.
ESA Weight	53 lbs.
ESA Input DC Voltage	54.7 V DC (across 2 IFL cables)
DC Power Consumption	300W max
Indoor Power Supply	100 V to 240 V AC
IFL Cable Length	220 ft (max)
IFL Cable Type	Dual 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 HL1120W user terminal includes the following indoor unit (IDU).

- HL1120W-IDU: Wi-Fi 6 router with two GigE LAN ports, MoCA adapter for ethernet over coax and external power supply.