

Hughes LEO Terminal

With its sleek and innovative low-profile Electronically Steered Antenna (ESA), the Hughes LEO Terminal represents the leading edge of Low Earth Orbit (LEO) user equipment. Developed by Hughes, the company that engineered the OneWeb gateways and core modules, the Hughes LEO Terminal works right “out of the box,” self-aligning to the OneWeb constellation. With a built-in modem and no moving parts, the terminal is optimized for operation over the OneWeb Ku-band LEO satellite constellation, enabling high bandwidth, low latency connectivity at speeds up to 195 Mbps down and 32 Mbps up. The lightweight, low-power and weather-tight terminal boasts a solid and durable aluminum chassis, making it easy to install and maintain in any environment.

Available in two configurations to support a full range of applications, the Hughes LEO Terminal comprises an ESA outdoor unit and an indoor router.

RF Specifications

| | |
|--------------|----------------------|
| TX Frequency | 14.0 GHz to 14.5 GHz |
| RX Frequency | 10.7 GHz to 12.7 GHz |

Environmental and Mechanical

| | |
|-----------------------|----------------------------------|
| Operating Temperature | -40°C to +55°C |
| 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) |

Indoor Unit Specifications

| | |
|-----------------------|----------|
| Model | WR3210 |
| GigE LAN Ports | 2 |
| External Power Supply | Included |
| Wi-Fi | Included |



| Terminal Specifications | Model HL1120 | Model HL1100 |
|-------------------------|---------------------------------|-----------------------------|
| ESA Dimensions | L23.5 in x W32.6in x H4.4in | L23.5 in x W15.8in x H3.0in |
| ESA Weight | 53 lbs. | 27 lbs. |
| Peak Downlink Data Rate | 195 Mbps | 57 Mbps |
| Peak Uplink Data Rate | 32 Mbps | 14 Mbps |
| ESA Input DC Voltage | 54.7 V DC (across 2 IFL cables) | 54.7V DC (nominal) |
| DC Power Consumption | 300W max (TBD) | 170W max (TBD) |