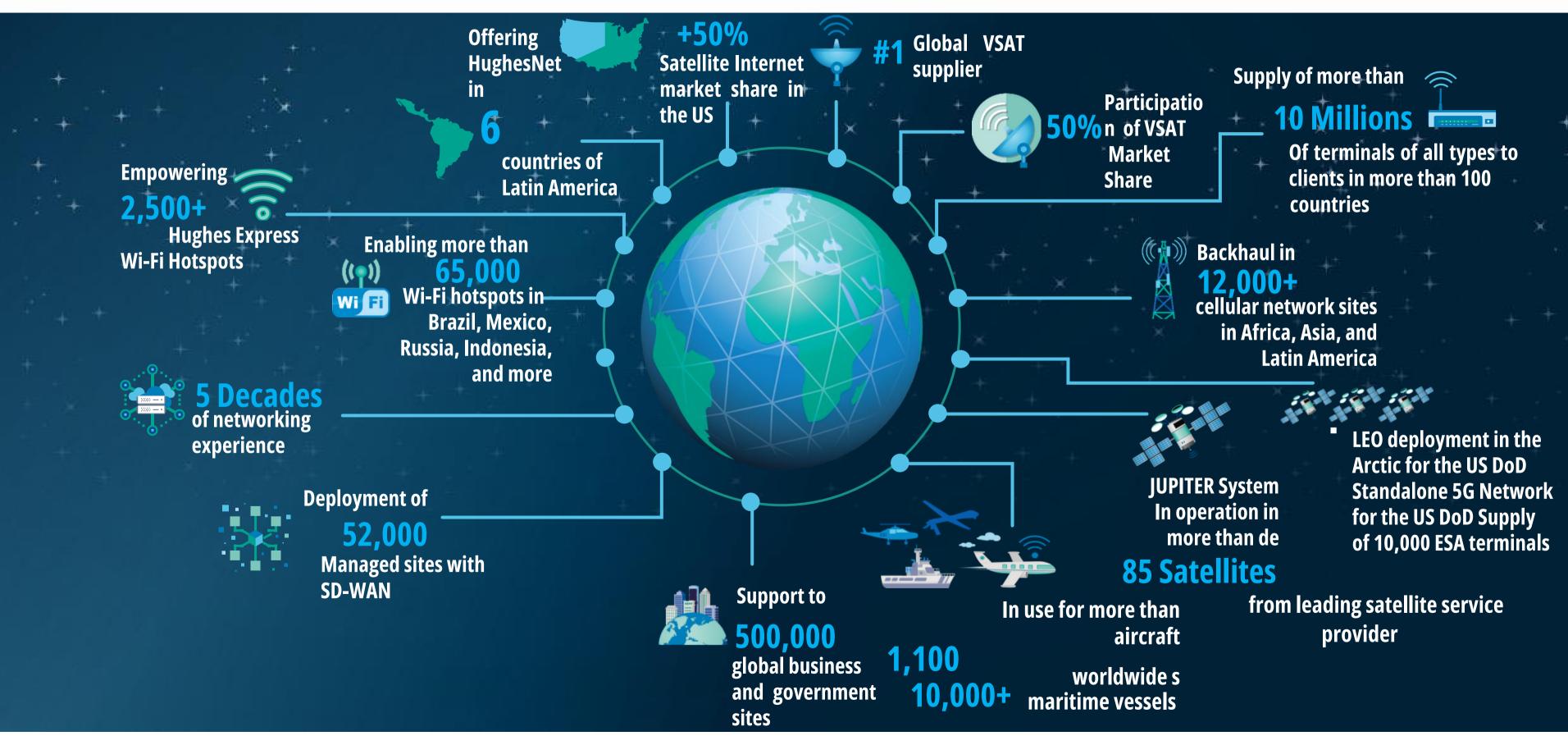


Business Status





This is Hughes





Hughes: Your OneWeb Partner of Choice





Technology partner

Hughes engineered, deployed and manages OneWeb system gateway electronics and core modules







Hardware Manufacturer
Electronically Steerable Antenna
(ESA) engineered for OneWeb







Dedicated enterprise capacity
648 Satellites in orbit



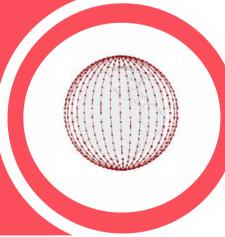


Global Distribution Partner

Hughes built value-added services around its POP and interconnection with OneWeb

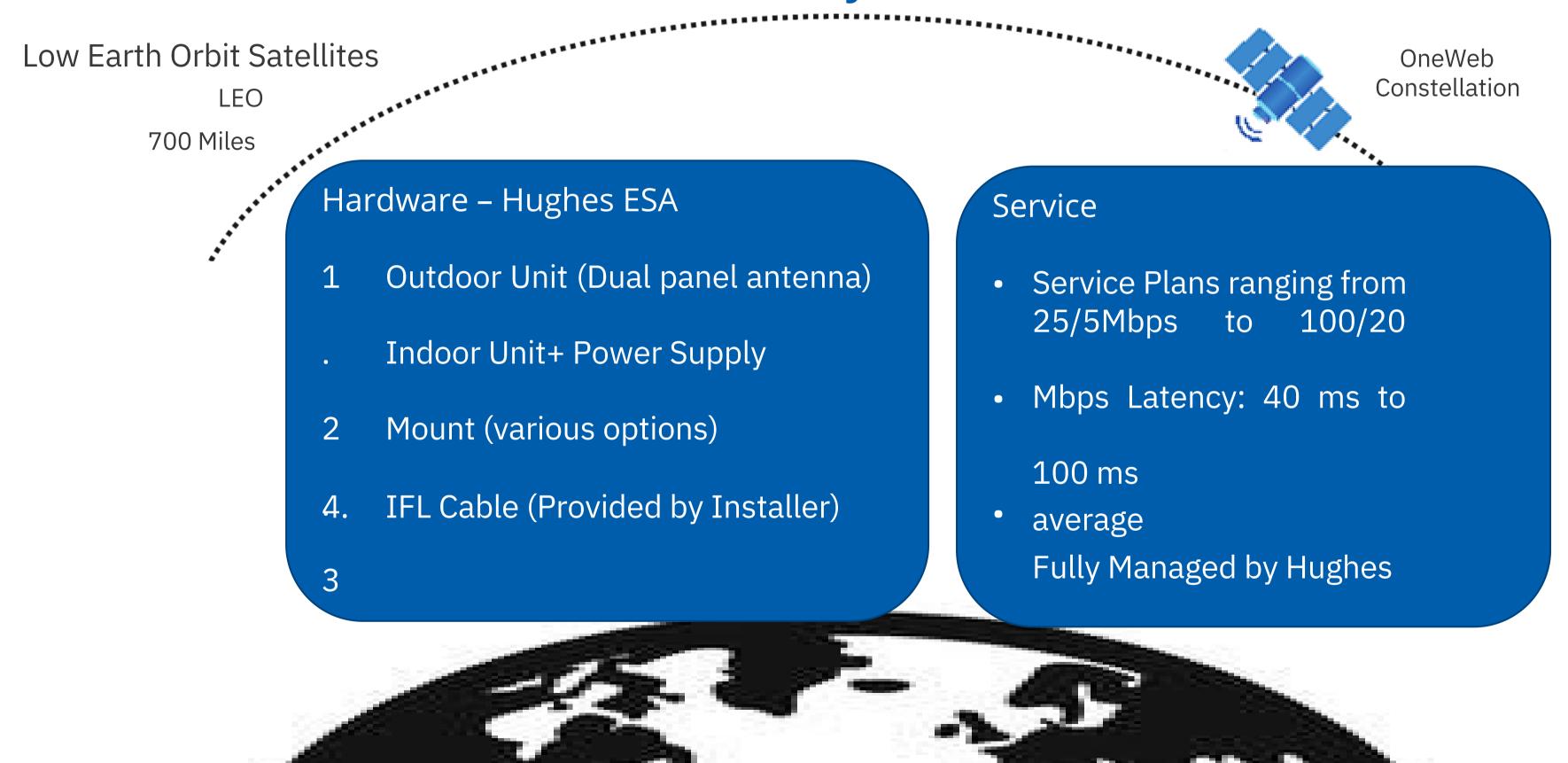
Launched in 2022 in 50+ North





Hughes Managed LEO - A new broadband transport available everywhere





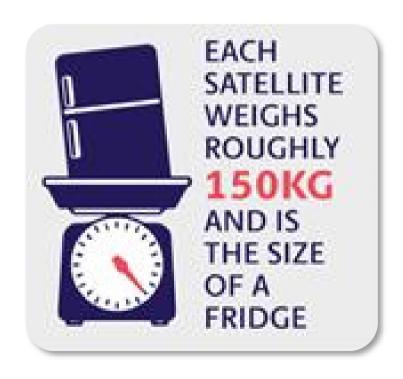
Benefits of the OneWeb Network



- A Global Low Earth Orbit (LEO) constellation
- Provides low latency (<70ms) broadband access
 - 4G/LTE Cellular Service is also <100ms
 - A VSAT using a GEO satellite has latency of ~600ms
- Delivers up to 100 mbps to a terminal
- Enterprise grade capacity
 - Network is not shared with consumer
 - traffic Security
- Delivers a superior Customer Experience (CX)
- Plug and play applications compared to a GEO VSAT solution
 - Higher speeds than 4G/LTE cellular service



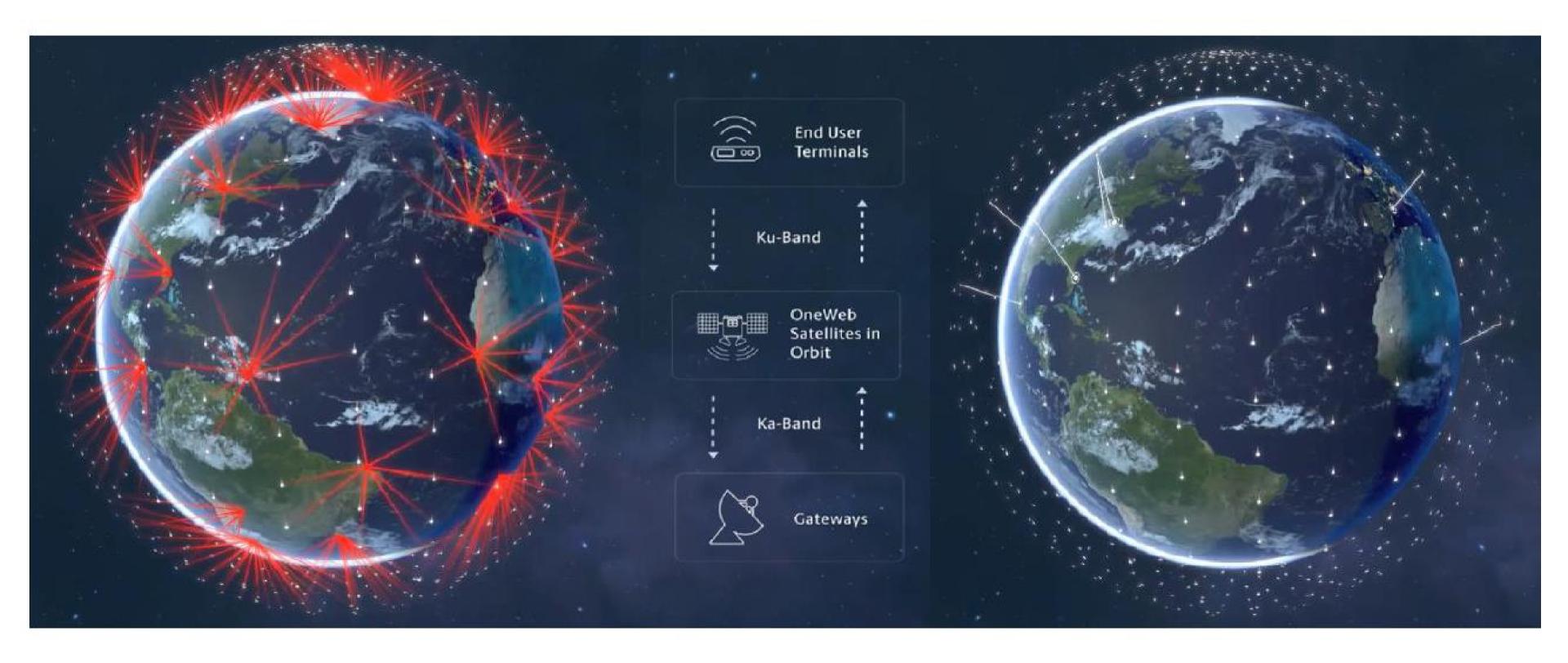






Hughes Managed LEO Terminals are KU-Band



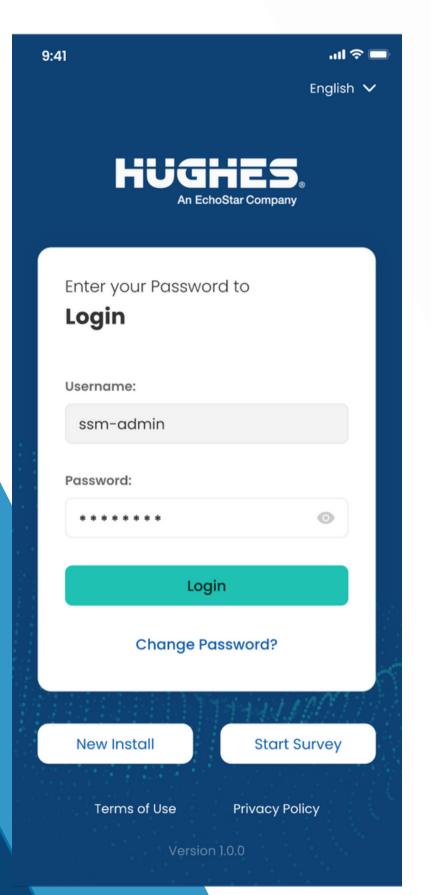


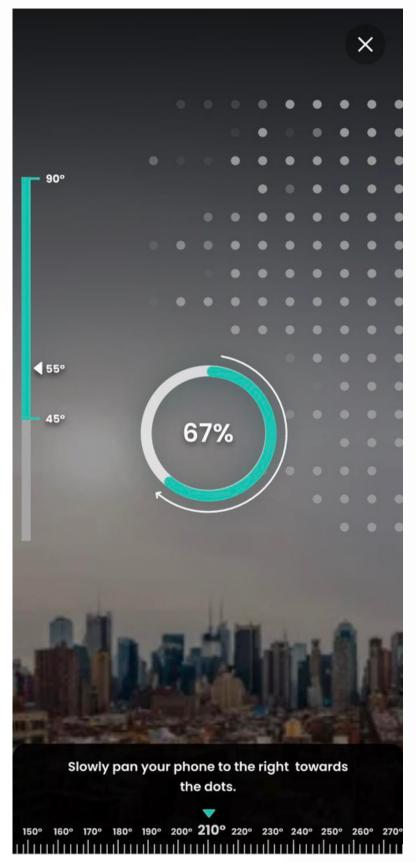
Hughes LEO App

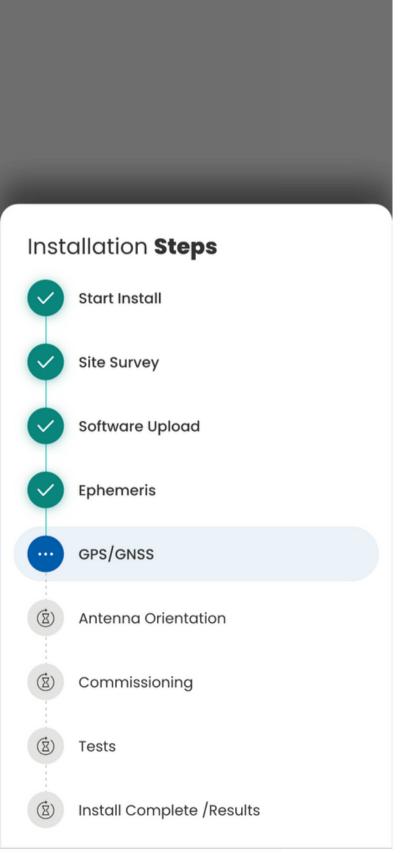












OneWeb/Hughes Ground Network





All terminal traffic passes from the satellite to a local OneWeb Gateway (GW).



OneWeb
Baseband GW
Equipment is
designed, built and
operated by
Hughes

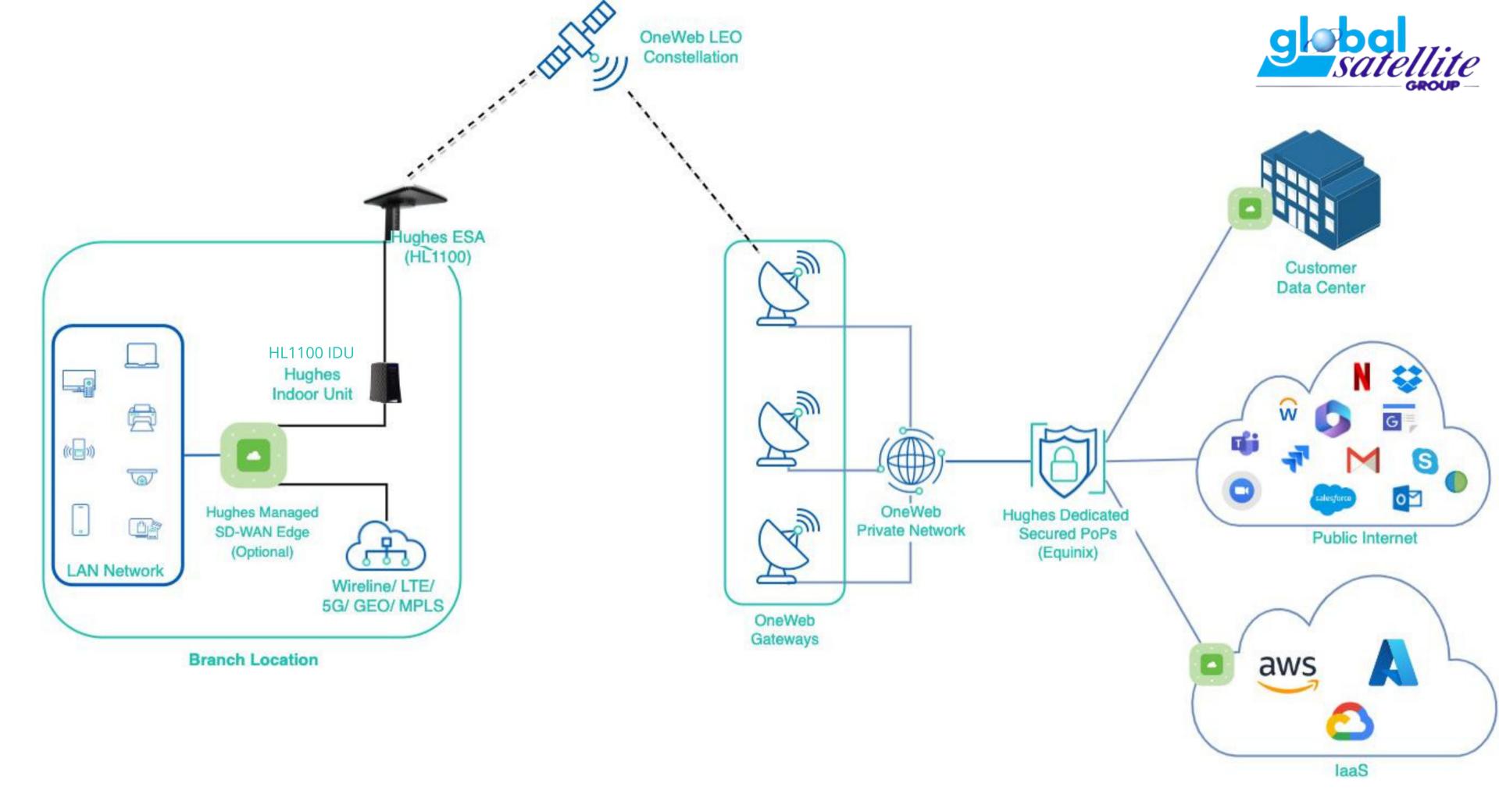


All traffic will pass to a Hughes PoP.





OneWeb GWs Hughes Quinix PoPs



Hughes ESA Hardware HughesLeo HL-1xxx





HL1100 (Fixed) 57x14 maximum Mbps Service Plan: 57x5



HL1120 (Fixed) 190x30 maximum Mbps Service Plan: 100x20



HL1200 (Land Mobile)
Availability TBD
57x14 maximum Mbps
Service Plan: 57x5

| Lightweight | Easy Installation | Self Alignment | Made in USA

Service Level Objectives (SLOs)



- 1. Link Availability SLO of 99.5%
 - Between the Approved User Terminals and the hand-off point to the internet at the Hughes PoPs
- 2. Round-Trip Latency SLO of 140ms
 - Between the Approved User Terminals and the hand-off point to the internet at the Hughes PoPs.
- 3. Packet Loss SLO of 1%
 - for the LEO constellation and associated baseband components of the service
- 4. 90% SLA for Partial CIR and 100% CIR speeds
 - Applies to networks over 100 sites

The Hughes advantage







Hughes Managed LEO Service

Enterprise-Grade Service

From the Most Qualified OneWeb Partner

With Managed Service Delivery

- Available across the Americas, India and globally, for enterprise, mobility, operator and gov/defense applications
- Dedicated enterprise capacity –not shared with consumer traffic
- Variety of plans to fit every business need

- Buy service from the company that knows the system better than anyone
- Use Hughes innovative ESA technology

- Managed service ensures availability, reliability and performance
- Includes 24/7 support, pane-of-glass monitoring portal, ability to integrate with other Hughes solutions and hundreds of other transports
- Private Network options

Hughes and OneWeb: A Strong Partnership



Hughes

Commitment As Investor

Expertise As Ground Network Manufacturer

Success As Premier Global Distributor

Innovation As Antenna Manufacturer

OneWeb

LEO Network \$5B Invested

Dedicated to Enterprise

Strong Financial Backing

Focused Segments









Maritime



Aviation



Government



Cellular Backhaul

Consumer Packaged Goods Financial Services & Banking Energy & Industry

Merchant Offshore / Rigs Super Yachts Passenger Fishing Leisure

Commercial Business (Private)

Civil Government Non -Government organizations

Macro - Cell Satellite Integrated Small Cells

Focused Segments

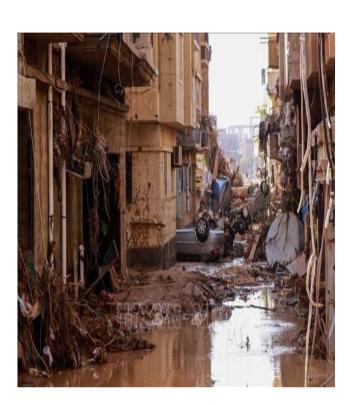








IoT



Disaster Recovery



Network Backup



Energy

Vehicles on the move

Smart City, Agriculture, predictive maintenance, security Support in case flood, earthquakes, fires

Higher Availability and low latency Mission critical applications, low delay

Hughes ESA Hardware Hughes LEO Terminals





HL1100 (Fixed) 57x14 maximum Mbps Service Plan: 50x10 Mbps



HL1120 (Fixed) 190x30 maximum Mbps Service Plan: 100x20





Lightweight | Water Resistent | Low Power | Easy To Install | Self Aligning | Made in USA

Hughes ESA Overview



for Fixed or "On-the-Pause" Service

	ESA & Integrated Modem	ESA & Integrated Modem
		The state of the s
Max mbps	57x10 mbps	190x30 mbps
(down/up)	24" x 18" x 3"	24" x 33" x 3"
Dimensions	30 lbs	53.2 lbs
Weight	140 Watts	350 Watts
Power Consumption	V	
IP67	V	
Wifi Built-In	May 2024	Today

Availability

HL1120W Indoor Unit & Power Supply









- IDU
 - 2 GigE Ports
 - Built-In WiFi
 - Can be disabled via GUI
 - Dual IFL to the HL1120W
 - Single IFL to the HL1100W

- Power Supply
 - 110VAC
 - 450W Max

Model & P/N Breakdown



5 parts must be ordered: ODU + IDU + PSU + Mount + Cables

Box	Part	HL1100W	HL1120W
1	ODU	Model: HL1100-ODU P/N: TBD	Model: HL1120-ODU P/N: 1508517-0001 or 1508517-0011 Bracketisincluded
2	IDU	Model: HL1120W-IDU P/N: 3501609-0002 Kit includes A/C Power Cable, Grounding Block and Connectors	
	PSU	Non-Wifi IDU av PSU	ailable in 2024
3	Mount	Trimast, Non-Pen, Pen, Plate - details to follow	
4	IFL	Dual IFL for HL1120, Single IFL for HL1100 - details to follow	

Non-Pen Mounts



Type	Short Stanchion – 4.7" High	Tall Stanchion – 10.6" High
Non-Pen Mount		Requires 2 bricks
Stanchion		
Combined Image	"B" "C"	"A" C"
Dimensions	A = 5.5" x B=28.83" x C=16.25"	A = 11.41" x B=28.83" x C=16.25"
Weight (lbs)	13.3	14.2
P/N	1508557-0001	1508556-0001

Pen Mounts



Type	Tri-Mast w/Mast Adapter	Pen Mount with Short Stanchion
Mount	"A" "B"	
Height (in.)	A = 29.9" x B=23.3" x C=7.9"	A = 5.4" x B=3.6" x C=5.9"
Weight (lbs)	14.7	1.8
P/N	1508654-0001	1508559-0001

Other Mounts



Type	Eave Mount	Plate Mast Mount
Mount		
P/N	9505142-0001	9012285-0001
Requires Mast Adapter w/Short Stanchion	Supports 2 3/8" OD	
P/N	1508555-0001	



Thank You!