

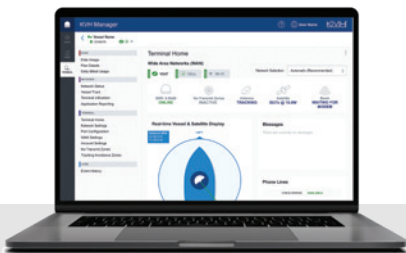
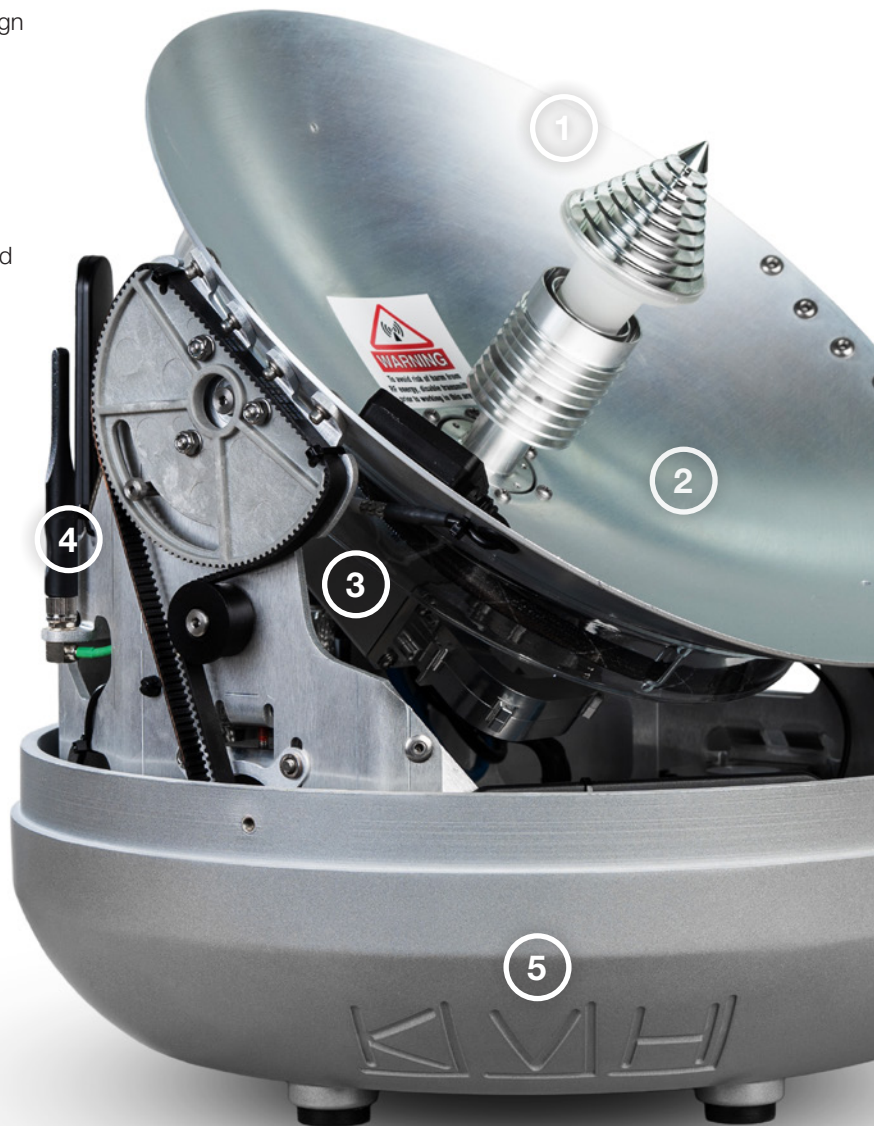


# TracNet™ H30

## Ultra-compact & affordable 37 cm Hybrid VSAT, Cellular, and Wi-Fi Connectivity

The ultra-compact TracNet H30 brings the versatility and affordability of hybrid connectivity to the smallest vessels while serving as a powerful backup on larger vessels. The 37 cm commercial-grade TracNet H30 is more than 50% lighter than competing 45 cm terminals and offers unmatched communications using the KVH ONE hybrid satellite, cellular, and Wi-Fi network with intelligent, automatic switching. The terminal also includes easy single-cable installation, a commercial-grade rotary joint for continuous azimuth rotation, and digital IMUs and advanced motor controllers for outstanding tracking even in rough seas or at high speeds.

- ① High-speed VSAT service (as fast as 6/2 Mbps down/up) via KVH's global, layered Ku-band HTS network, offering 276 million sq. km (106+ million sq. miles) of coverage
- ② Ultra-high efficiency antenna using KVH's RingFire™ design and groundbreaking dielectric rod feed for excellent reception even in bad weather
- ③ High-performance tracking with 2-axis pedestal design, stabilized skew, dual digital IMUs, and advanced motor controllers
- ④ Terrestrial Communications Module supporting integrated high-power cellular antennas with service in 150+ countries plus built-in high-gain Wi-Fi antennas for seamless switching to shore-based Wi-Fi networks
- ⑤ Commercial-grade rotary joint and single cable design for easy installation and uninterrupted azimuth rotation and tracking



### Belowdeck Units

KVH's streamlined belowdeck units are at the heart of every TracNet terminal. These tools create confidence through all-in-one system control and network management.



**TracNet Hub** 10-30V DC-powered with built-in Wi-Fi router, user-supplied SIM slot, ethernet ports and VoIP line. Shelf or bulkhead-mount.



**TracNet Hub+** AC-powered with touchscreen interface, user-supplied SIM slot, built-in Wi-Fi router, ethernet ports and two VoIP lines. Rack-mount.

# TracNet H30 Hybrid Connectivity System

## System Specifications

Service	
Network	KVH Ku-band global HTS network; regional cellular services in 150+ countries; available shore-based Wi-Fi networks
Antenna Type	Ku-band
Service Coverage Area	Seamless worldwide regions
Maximum Speed Download/Upload <sup>1</sup>	as fast as 6 Mbps/2 Mbps (down/up)
Above-decks Equipment	
Antenna Dish Diameter	36.8 cm (14.5")
Antenna Unit Dimensions/Weight	39.4 cm D x 44.7 cm H (15.5" D x 17.6" H)/ 11.1 kg (24.6 lbs)
Elevation/Azimuth Range	7.7° to 75°/Unlimited rotation
Temperature	Operating: -30°C to 55°C (-22°F to 131°F); Survival: -35°C to 70°C (-31°F to 158°F)
Humidity/Salt Fog	IEC 60945; 40°C (104°F), 95% Humidity (non-condensing)
Rain	Precipitation rate of 1.7mm/min, w/wind speeds up to 100 knots
Antenna Unit Power	DC, provided by the TracNet Hub or Hub <sup>+</sup>
Hub to Antenna Unit Connection	Single coaxial cable, see <a href="http://kvh.com/tracnetcables">kvh.com/tracnetcables</a> or contact KVH Technical Support for detailed specifications
Below-decks Equipment – TracNet Hub <sup>+</sup>	
Dimensions	48.3 cm l x 30.7 cm w x 4.5 cm h (19" x 12.1" x 1.75"); will fit in 1U slot
Weight	3.7 kg (8.3 lbs)
Temperature	Operating: -25°C to 55°C (5°F to 131°F); Survival: -15°C to 70°C (5°F to 158°F)
Heading Input	NMEA 2000, NMEA 0183 magnetic or true heading
Input Power	100-240 VAC, 50-60 Hz auto switching, 250W max
Data Interfaces	4 Ethernet: IEEE 1000BASE-T 2 USB 3.0 Ports
Voice Interfaces	2 RJ11 ports supporting single line VoIP service
Below-decks Equipment – TracNet Hub	
Dimensions	23.6 cm x 20.5 cm x 4.4 cm (9.34" x 8.05" x 1.73")
Weight	1.4 kg (3 lbs)
Temperature	Operating: -15°C to 55°C (5°F to 131°F); Survival: -25°C to 70°C (5°F to 158°F)
Heading Input	NMEA 2000, NMEA 0183 magnetic or true heading
Input Power	10-30 VDC, 125W max
Data Interfaces	4 Ethernet: Gigabit 1000BASE-T IEEE 802.3; 2.4/5GHz IEEE 802.11ac/a/b/g/n 2x2 MIMO Wi-Fi; 1 USB 3.0 Ports
Voice Interfaces	1 RJ11 port for VoIP services

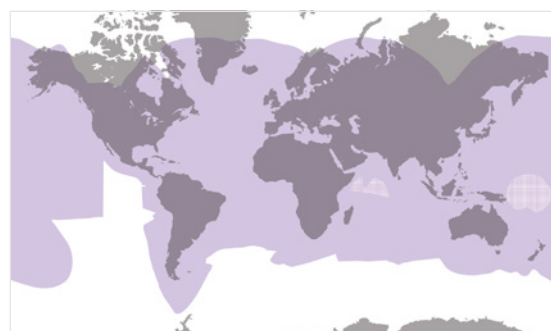
System Options		
KVH OneCare™ Support Program	Available; see <a href="http://kvh.com/onecare">kvh.com/onecare</a> for details	
Iridium Certus® Optional Backup	Available; see "Optional Backup" on <a href="http://kvh.com/H30">kvh.com/H30</a> for details	
Terrestrial Communications Module – Cellular Specifications		
Band Support		
Regions	Global, except China	
5G	Standards	3GPP Release 15 NSA/SA operation, Sub-6 GHz
	MIMO	DL: Up to 4 x 4 MIMO UL: Up to 2 x 2 MIMO
LTE (4G)	Standards	DL Cat 20; UL Cat 18 LTE-FDD, LTE-TDD & LTE-LAA
	MIMO	DL: Up to 4 x 4 MIMO
UMTS (3G)	WCDMA	
Data Rates (max) <sup>2</sup>		
5G	5G NR SA Sub-6Ghz	DL 4.2 Gbps; UL 450 Mbps
	5G NR NSA Sub-6Ghz	DL 5.0 Gbps; UL 600 Mbps
LTE	LTE-A	DL 2.0 Gbps; UL 200 Mbps
UMTS	WCDMA	DL 42 Mbps; UL 5.76 Mbps
Terrestrial Communications Module – Wi-Fi Specifications		
Wi-Fi Standards	IEEE 802.11ac/a/b/g/n	
Band Support	2.4 Ghz / 5 Ghz	
Data Rate (max) <sup>3</sup>	802.11b: 11Mbps	
	802.11a/g: 54Mbps	
	802.11n: 300Mbps	
802.11ac: 867Mbps		
MIMO	Up to 2 x 2 MIMO	
Security	WPA2, WPA3	
Complete System		
Certification	Complies with the essential requirements of Radio Equipment Directive 2014/53/EU, which includes the safety objectives set out in EN62368-1 and in EMC directive EN60945 FCC Part 15, Subpart B, Class A NMEA 2000 Certified RoHS & REACH	
System Warranty <sup>3</sup>	Comprehensive 2-year parts, 2-year labor warranty supported by KVH's worldwide Certified Support Network (CSN) ; extended warranty up to 5 years available	
Part Number	01-0432-11	

Meets FCC and CE requirements. Exceeds Inmarsat operational, survival, and shock specifications.

<sup>1</sup> Published data speeds are maximum speeds and may vary in different regions and under different conditions.

<sup>2</sup> Data rates theoretical only and actual value depends on network conditions. Data rates limited by 1 Gbps Ethernet LAN interface.

<sup>3</sup> Unless subject to in-country regulations. Restrictions apply. Visit [kvh.com/warranty](http://kvh.com/warranty) for details.



### KVH Global, Layered Ku-band HTS Network Coverage

The map depicts KVH's expectations for the HTS network's coverage for the TracNet H30; actual coverage and availability may vary. Data rates may also vary in different regions. Go to [www.kvh.com/tracnetmaps](http://www.kvh.com/tracnetmaps) to view our global coverage maps for TracNet H30.

■ Ku-band Coverage

■ TracNet H30 has a 2-axis stabilized antenna pedestal design that does not provide coverage in areas where the satellite is directly overhead.

[kvh.com](http://kvh.com)



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