



TracNet[®] H30

Hybrid VSAT, Cellular, and Wi-Fi for Mission-critical Connectivity in an Ultra-compact Terminal

Ensure your special ops, border security, and patrol vessels and vehicles remain connected at all times and on the move with the ultracompact TracNet H30 and KVH ONE hybrid network. The 37 cm commercial-grade TracNet H30 offers unmatched communications with integrated satellite, cellular, and Wi-Fi networks managed by intelligent, automatic switching. Offering DC and AC power options, singlecable installation, a commercial-grade rotary joint for continuous azimuth rotation, and digital IMUs and advanced motor controllers, the TracNet H30 is designed for rapid deployment, superior tracking in rough seas, at high speeds, and over rugged terrain. Low latency and data speeds as fast as 6 Mbps/2 Mbps (down/up) make it ideal for streaming video, biometric data, and encrypted messaging protocols such as CENTRIXS.

- High-speed VSAT service (as fast as 6/2 Mbps down/up) via KVH's global, layered Ku-band HTS network, offering 294 million sq. km (113+ 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
- 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, usersupplied 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 ¹	as fast as 6 Mbps/2 Mbps (down/up)		
Abovedecks 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+		
Hub to Antenna Unit Connection	Single coaxial cable, see <u>kvh.com/tracnetcables</u> or contact KVH Technical Support for detailed specifications		
Belowdecks Equipment – TracNet Hub⁺			
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 1000BASET-T 2 USB 3.0 Ports		
Voice Interfaces	2 RJ11 ports supporting single line VoIP service		
Belowdecks Equipmen	t – 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		

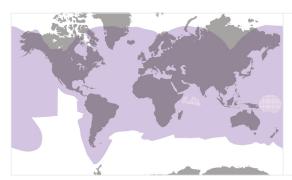
System Options			
KVH OneCare [™] Support Program	Available; see kvh.com/onecare for details		
Iridium Certus® Optional Backup	Available; see "Optional Backup" on <u>kvh.com/H30</u> for details		
Terrestrial Communications Module – Cellular Specifications			
Band Support			
Regions	Global, except China		
5G	Standards	3GPP Release 15 NSA/SA operation, Sub-6 GHz	
	MIMO	DL: Up to 4 x 4 MIMO UL: Up to 2 × 2 MIMO	
LTE (4G)	Standards	DL Cat 20; UL Cat 18 LTE-FDD, LTE-TDD & LTE-LAA	
	MIMO	DL: Up to 4 ×4 MIMO	
UMTS (3G)	WDCMA		
Data Rates (max) ²			
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) ³	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 NMEA 2000 Certified RoHS & REACH		
System Warranty ³	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 (ϵ requirements. Exceeds Inmarsat operational, survival, and shock specifications.

¹ Published data speeds are maximum speeds and may vary in different regions and under different conditions.

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

³ Unless subject to in-country regulations. Restrictions apply. Visit <u>kvh.com/warranty</u> 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 <u>www.kvh.com/tracnetmaps</u> 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.



World Headquarters KVH Industries, Inc. · Middletown, RI U.S.A. +1.401.847.3327 · info@kvh.com

kvh.com

EMEA Headquarters KVH Industries A/S · Birkeroed, Denmark +45.45.160.180 · info@emea.kvh.com Asia-Pacific Headquarters KVH Industries Pte Ltd. · Singapore +65.6513.0290 · info@apac.kvh.com

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