



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.

- 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
- Ultra-high efficiency antenna using KVH's RingFire™ design and groundbreaking dielectric rod feed for excellent reception even in bad weather
- 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
- 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

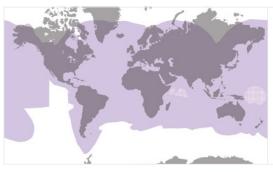
System Specifications

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 ¹	as fast as 6 Mbps/2 Mbps (down/up)	
Abovedecks Equipmer	nt	
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 kvh.com/tracnetcables or contact KVH Technical Support for detailed specifications	
Belowdecks Equipment – TracNet Hub+		
Dimensions	48.3 cm I 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 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	

RVH OneCare Support Program Available; see kyh.com/onecare for details	System Options			
Optional Backup for details Terrestrial Communications Module — Cellular Specifications Band Support Regions Global, except China 5G Standards 3GPP Release 15 NSA/SA operation, Sub-6 GHz DL: Up to 4 x 4 MIMO UL: Up to 2 x 2 MIMO UL: Up to 2 x 2 MIMO UL: Up to 2 x 2 MIMO UL: Up to 4 x 4 MIMO UL: Up to 5 SQ NR NSA Sub-6Ghz DL 5.0 Gbps; UL 450 Mbps 5G NR NSA Sub-6Ghz DL 5.0 Gbps; UL 450 Mbps ULTE UTE-A DL 2.0 Gbps; UL 200 Mbps ULTE UTE-A DL 2.0 Gbps; UL 200 Mbps ULTE UTE-A DL 2.0 Gbps; UL 5.76 Mbps UNMTS 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 802.11ac/ 364Mbps 802.11ac/ 364Mbps 802.11ac/ 364Mbps 802.11ac/ 365Mbps 802.		Available; see kvh.com/onecare for details		
Band Support				
Regions Global, except China	Terrestrial Commu	inications Module -	Cellular Specifications	
Standards Standards Standards DL: Up to 4 x 4 MIMO UL: Up to 2 x 2 MIMO LTE (4G) Standards DL: Up to 4 x 4 MIMO UL: Up to 2 x 2 MIMO DL Cat 20; UL Cat 18 LTE-FDD, LTE-TDD & LTE-LAA MIMO DL: Up to 4 x 4 MIMO DL: Up to 4 x 4 MIMO DL: Up to 4 x 4 MIMO UMTS (3G) WDCMA Data Rates (max)² 5G 5G NR SA Sub-6Ghz 5G NR NSA Sub-6Ghz DL 5.0 Gbps; UL 450 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 802.11b: 11Mbps 802.11a/g: 54Mbps 802.11a/g: 54Mbps 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 Warranty³ Comprehensive 2-year parts, 2-year labor warranty supported by KVH's worldwide Certified Support Network (CSN); extended warranty up to 5 years available	Band Support			
Standards 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) WDCMA Data Rates (max)² 5G NR SA Sub-6Ghz DL 5.0 Gbps; UL 450 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 802.11b: 11Mbps 802.11a/g: 54Mbps 802.11b: 11Mbps 802.11b: 11Mbps 802.11b: 11Mbps 802.11b: 154Mbps 802.11c: 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 Warranty³ Comprehensive 2-year parts, 2-year labor warranty supported by KVH's worldwide Certified Support Network (CSN); extended warranty up to 5 years available	Regions	Global, except China		
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	Standards		
Standards LTE-FDD, LTE-TDD & LTE-LAA MIMO DL: Up to 4 ×4 MIMO UMTS (3G) WDCMA Data Rates (max)² 5G		MIMO		
UMTS (3G) Data Rates (max)² 5G 5G NR NSA 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 802.11b: 11Mbps 802.11a/g: 54Mbps 802.11a/g: 54Mbps 802.11a: 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 Warranty³ Comprehensive 2-year parts, 2-year labor warranty supported by KVH's worldwide Certified Support Network (CSN); extended warranty up to 5 years available	LTE (4G)	Standards		
Data Rates (max)² 5G		MIMO	DL: Up to 4 ×4 MIMO	
5G NR SA Sub-6Ghz 5G NR NSA Sub-6Ghz DL 5.0 Gbps; UL 450 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 Band Support 2.4 Ghz / 5 Ghz 802.11ac/a/b/g/n Band Support 2.4 Ghz / 5 Ghz 802.11b: 11Mbps 802.11a: 867Mbps 802.11a: 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 Warranty³ Comprehensive 2-year parts, 2-year labor warranty supported by KVH's worldwide Certified Support Network (CSN); extended warranty up to 5 years available	UMTS (3G) WDCMA			
5G NR NSA Sub-6Ghz 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 802.11b: 11Mbps 802.11a: 300Mbps 802.11a: 867Mbps MIMO Up to 2 x 2 MIMO Security WPA2, WPA3 Complete System 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 Warranty³ Comprehensive 2-year parts, 2-year labor warranty supported by KVH's worldwide Certified Support Network (CSN); extended warranty up to 5 years available	Data Rates (max) ²			
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 802.11b: 11Mbps 802.11a: 54Mbps 802.11a: 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 Comprehensive 2-year parts, 2-year labor warranty supported by KVH's worldwide Certified Support Network (CSN); extended warranty up to 5 years available	5G			
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 802.11b: 11Mbps 802.11a: 54Mbps 802.11a: 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 Warranty3 Comprehensive 2-year parts, 2-year labor warranty supported by KVH's worldwide Certified Support Network (CSN); extended warranty up to 5 years available	LTE			
Terrestrial Communications Module – Wi-Fi Specifications Wi-Fi Standards IEEE 802.11ac/a/b/g/n Band Support 2.4 Ghz / 5 Ghz 802.11b: 11Mbps 802.11a/g: 54Mbps 802.11a: 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 Warranty³ Comprehensive 2-year parts, 2-year labor warranty supported by KVH's worldwide Certified Support Network (CSN); extended warranty up to 5 years available	UMTS			
Wi-Fi Standards Band Support 2.4 Ghz / 5 Ghz 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 Warranty³ Comprehensive 2-year parts, 2-year labor warranty supported by KVH's worldwide Certified Support Network (CSN); extended warranty up to 5 years available	Terrestrial Commu	inications Module – '		
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 FCC Part 15, Subpart B, Class A NMEA 2000 Certified RoHS & REACH System Warranty³ Comprehensive 2-year parts, 2-year labor warranty supported by KVH's worldwide Certified Support Network (CSN); extended warranty up to 5 years available				
Data Rate (max)³ 802.11a/g: 54Mbps 802.11n: 300Mbps 802.11a: 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 Warranty³ Comprehensive 2-year parts, 2-year labor warranty supported by KVH's worldwide Certified Support Network (CSN); extended warranty up to 5 years available	Band Support			
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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 Warranty³ Comprehensive 2-year parts, 2-year labor warranty supported by KVH's worldwide Certified Support Network (CSN); extended warranty up to 5 years available	MIMO	Up to 2 x 2 MIMO		
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 Warranty³ Comprehensive 2-year parts, 2-year labor warranty supported by KVH's worldwide Certified Support Network (CSN); extended warranty up to 5 years available	Security	WPA2, WPA3		
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 Warranty³ Comprehensive 2-year parts, 2-year labor warranty supported by KVH's worldwide Certified Support Network (CSN); extended warranty up to 5 years available	Complete System			
supported by KVH's worldwide Certified Support Network (CSN); extended warranty up to 5 years available	Certification	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		
	System Warranty ³	supported by KVH's worldwide Certified Support Network		
	Part Number			

Meets FCC and (fequirements. 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 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



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