

KVH ONE<sup>™</sup> SYSTEM SPECIFICATIONS



# TracNet<sup>™</sup> H60 Versatile, Compact 60 cm Hybrid VSAT, Cellular, & Wi-Fi Connectivity

Stay connected worldwide with the versatile, 60 cm commercial-grade TracNet H60. As much as 42% lighter than competing systems, this compact digital antenna offers unmatched communications using hybrid satellite, cellular, and Wi-Fi connectivity with intelligent, automatic switching. The terminal also includes easy single-cable installation and a commercial-grade rotary joint for continuous azimuth rotation and tracking. Its three-axis pedestal design, stabilized skew, dual digital IMUs, and advanced motor controllers deliver high-performance tracking in all sea states.

- High-speed VSAT service (as fast as 10/3 Mbps down/up)
  via KVH's global, layered Ku-band HTS network, offering
  276 million sq. km (106+ million sq. miles) of coverage
- 2 Tuned antenna paired with KVH's exclusive RingFire™ technology ensures superior reception
- 3 Three-axis pedestal design with a fourth axis of automatic skew adjustment for outstanding tracking in all sea states
- 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 port, ethernet ports and VoIP line. Shelf or bulkhead-mount.



TracNet Hub<sup>+</sup> AC-powered with touchscreen interface, user-supplied SIM slot, built-in Wi-Fi router, ethernet ports, two VoIP lines, content storage and access for the commercial maritime KVH Link content service. Rack-mount.



## TracNet H60 Hybrid Connectivity System

## **System Specifications**

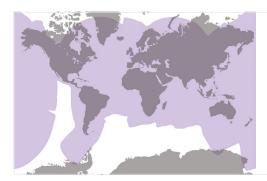
Service			
Network	KVH Ku-band global HTS network; regional cellular services in 150+ countries; available shore-based Wi-Fi networks		
Antenna Type	Ku-band		
Service Coverage Area	Seamless Worldwide Regions		
Maximum Speed Download/Upload <sup>1</sup>	10 Mbps/3 Mbps		
Abovedecks Equipment			
Antenna Dish Diameter	60 cm (24")		
Antenna Unit Dimensions/ Weight	66.6 cm D x 79.2 cm h (26.2" D x 31.2" h)/ 24.3 kg (53.6 lbs)		
Elevation/Azimuth Range	-24° to 116° / commercial-grade rotary joint for unlimited azimuth 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	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+		
Antenna Cable	100' coax cable provided; supports cable runs up to 500'; see <u>kvh.com/tracnetcables</u> or contact KVH Technical Support for specifications		
Remote Support	Integrated cellular radio for access by KVH Technical Support (requires SIM activation)		
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; rack- mountable with optional mounting provisions <sup>2</sup>		
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 for VoIP services		
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; 2 USB 3.0 Ports		
Voice Interfaces	1 RJ11 port for VoIP services		

System Options			
KVH Link	Available for commercial applications. See <u>kvh.com/link</u> for details.		
KVH OneCare <sup>™</sup> Support Program	Available; see kvh.com/onecare for details		
Iridium Certus <sup>®</sup> Optional Backup	Available; see "Optional Backup" on <u>kvh.com/H60</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) <sup>3</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	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 <sup>4</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	01-0436-11		

Meets C € 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> Optional Belowdecks Mounting Case (Part Number 72-0368) available for vessels without a rack. <sup>3</sup> Data rates theoretical only and actual value depends on network conditions. Data rates limited by 1 Gbps Ethernet LAN interface.

<sup>4</sup> Unless subject to in-country regulations. Restrictions apply. Visit <u>kvh.com/warranty</u> for details.



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

### TracNet 60 cm and 1 m System Coverage Map

Coverage maps are representative and may change at any time. Data rates may also vary in different regions. For complete details, visit kvh.com/tracnetmaps and click on the KVH ONE coverage map. KVH provides no guarantees of satellite coverage or availability.

60 cm and 1 m



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