TracNet™ H60
Hybrid In-motion Communications for Critical Missions

Deliver field-proven, versatile, and mission-critical communications for military and government vessels and vehicles using the KVH TracNet H60 and the KVH ONE hybrid network. The full stabilized, 60 cm TracNet H60 employs integrated Ku-band satellite, cellular, and Wi-Fi connectivity with intelligent, automatic switching. The result is a versatile, on-the-move communications solution with low latency and speeds as fast as 10/3 Mbps (down/up), ideal for streaming video, biometric data, and encrypted messaging protocols such as CENTRIXS. With a single-cable design along with AC and DC power options, TracNet H60 supports rapid deployment while its three-axis pedestal design, stabilized skew, dual digital IMUs, and advanced motor controllers deliver high-performance tracking at all times.

1. 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
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 port, 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, 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:** 10 Mbps/3 Mbps

**Above-decks 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°F (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+ (non-condensing)
- **Antenna Cable:** 100' coax cable provided; supports cable runs up to 500'; see kvh.com/tracnetcables or contact KVH Technical Support for specifications
- **Remote Support:** Integrated cellular radio for access by KVH

**Below-decks 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
- **Weight:** 3.7 kg (8.3 lbs)
- **Temperature:** Operating: -25°C to 55°C (5°F to 131°F); Survivall: -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 for VoIP services

**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; 2 USB 3.0 Ports
- **Voice Interfaces:** 1 RJ11 port for VoIP services

System Options

- **KWH Link**
  - Available for commercial applications. See kvh.com/link for details.
- **KWH OneCare™ Support Program**
  - Available; see kvh.com/onecare for details
- **Iridium Certus© Optional Backup**
  - Available; see "Optional Backup" on kvh.com/H60 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 (NG):** Standards: DL Cat 20; UL Cat 18; LTE-FDD, LTE-TDD & LTE-LAA
  - MIMO: DL: Up to 4 x 4 MIMO
  - WCDMA

**Data Rates (max)**

- **5G:** 5G NR SA Sub-6GHz
  - DL: 4.2 Gbps; UL: 450 Mbps
- **5G NR NSA Sub-6GHz:**
  - DL: 4.2 Gbps; UL: 450 Mbps
- **LTE:**
  - DL: 200 Mbps; UL: 200 Mbps
- **UMTS:**
  - 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): 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©:** 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

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.

---

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

KVH Industries A/S · Kokkedal, Denmark
+45.45.160.180 · info@emea.kvh.com

KVH Industries Pte Ltd. · Singapore
+65.6513.0290 · info@apac.kvh.com

KVH Link Available for commercial applications. See kvh.com/link for details.
KVH OneCare™ Support Program Available; see kvh.com/onecare for details
Iridium Certus© Optional Backup Available; see "Optional Backup" on kvh.com/H60 for details

All other trademarks are the property of their respective companies.

Specifications subject to change without notice.

©2022 KVH Industries, Inc.
KWH, TracNet, KVH ONE, RingFire, KVH OneCare, myKVH, and the unique light-colored dome with dark contrasting baseplate are trademarks of KVH Industries, Inc.