ONE

Intelligent hybrid connectivity

TRACNET™ H30 / H60 / H90

Leisure & Yachting

Satellite

Wi-Fi

Cellular

One unified network. One smart terminal.
One great experience.

At the dock:
Automatically switches to marina Wi-Fi

Wi-Fi

Underway:
Conveniently connects to cellular

Cellular

Offshore:
Seamlessly switches to VSAT

Satellite

Don't think about how you'll connect, just enjoy what you're doing while you're connected!

Enjoy the fastest, most reliable connectivity at sea and in the marina with the KVH ONE™ hybrid network and groundbreaking TracNet terminals. Every TracNet terminal includes integrated satellite, cellular, and Wi-Fi technology with intelligent, automatic network switching that will keep you connected to the best communications at all times, in all sea states, and at any vessel speed.

It's also seamless and stress-free. Stream your favorite movie, enjoy crystal-clear voice calls with family, work remotely, and stay in touch on social media. KVH ONE, together with TracNet, delivers the connectivity that's best for you with:

- ⊘ KVH's global Ku-band HTS network powered by Intelsat

- ⊘ 5G/LTE cellular service in 150+ countries[1]

- ⊘ Compatibility with shore-based Wi-Fi

- ⊘ Intelligent, automatic network switching based on service availability, costs, and the quality of data transfer

- ⊘ Optional manual switching and use of user-supplied SIMs

- ⊘ Flexible month-to-month contract terms with unlimited plan changes & suspensions

[1]Where available and compatible with the KVH- or user-supplied SIM cards and service

H90
TracNet
KVH

H60
TracNet
KVH

H30
TracNet
KVH

Access complete product specifications, airtime rates, coverage maps, and more at **kvh.com/one**

KVH Connectivity Solution Comparison

Versatile and affordable connectivity options, from a VSAT-only solution to hybrid terminals with integrated VSAT, cellular, and Wi-Fi.

	TracPhone V30	TracNet H30 *NEW*	TracNet H60 *NEW*	TracNet H90 *NEW*
Compatibility	30+ ft (9+ m) boats		60+ ft (18+ m) boats	90+ ft (27+ m) boats
Automatic hybrid switching	N/A	⊘		
Connectivity options	VSAT	Hybrid (VSAT, Cellular, Wi-Fi)		
Antenna diameter/ weight	37 cm (14.6") 10.6 kg (23.4 lbs)	37 cm (14.6") 11.2 kg (24.6 lbs)	60 cm (23.6") 24.3 kg (53.6 lbs)	1 m (39.4") 86 kg (189 lbs)
BDU (belowdeck unit)	VSAT Hub (DC)	TracNet Hub (DC) or TracNet Hub+ (AC)		TracNet Hub+ (AC)
Max VSAT speed Mbps[2] (down/up)	6/2 Mbps		10/3 Mbps	20/3 Mbps
Satellite channels	Single (High-speed)		Dual (High-speed & Unlimited Use)	
Stabilization	Two axis + stabilized skew		Three axis + stabilized skew	
Supports user-supplied SIM card	N/A	⊘		
Easy installation	Single cable install with DC power (AC-DC converter available)	Single cable install with DC and AC power belowdeck units (TracNet H90 available with AC power only)		
High-performance tracking	Digital IMUs and commercial-grade rotary joint for uninterrupted reception			
Service & support	From system selection and design to installation, and support in ports worldwide, KVH OneCare™ provides peace of mind for the life of your product			
KVH Elite™ (unlimited streaming service) compatible	N/A	⊘		
Cybersecurity	Integrated terminal and network security	Integrated terminal and network security; optional enterprise-level upgrade		
Technical specifications	[QR] kvh.com/v30specs	[QR] kvh.com/h30specs	[QR] kvh.com/h60specs	[QR] kvh.com/h90specs

[2]Data rates are Ku-band service speeds only and rate plan maximums and may vary in different regions and under different conditions.

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 *12V DC-powered with built-in Wi-Fi router, ethernet ports and VoIP line. Shelf or bulkhead-mount.*

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

Hybrid Connectivity Without Complication

KVH Manager delivers a powerful suite of mobile-responsive tools that provides valuable analytics, data usage control, and customizable interfaces. Monitor your usage in real time; choose to allow, restrict or block data usage in eleven different categories; and set up alerts to stay aware of your data usage.

Always-available indicator for active and available hybrid networks

Hybrid wide area network detail views

Suite of flexible network and vessel management tools

Powerful tools to customize and manage your TracNet terminal and onboard network configuration

Easily toggle between automatic and manual network switching

Automatic network switching selects based on service availability, costs, and the quality of data transfer

Mobile-responsive view of all screens, including real-time data usage

KVH Manager — Terminal Home

Wide Area Networks (WAN)

AUTO VSAT · AUTO CELL · AUTO WI-FI

Network Selection: Automatic (Recommended)

SNR: 8.60dB ONLINE | No-Transmit Zones INACTIVE | Antenna TRACKING | Satellite IS37e @ 18.0°W | Beam WAITING FOR MODEM

Real-time Vessel & Satellite Display
Antenna GPS 41.5214 N 71.2915 W · 100°T

Data Usage — High Speed / Unlimited / Cell
Estimated Month-to-Date Usage
1.3 GB
Monthly Allowance Usage
Allowance — 1.3 GB — 2.0 GB
Overage 0.0 GB

DATA PLAN	V7L HS-2GB
MONTHLY ALLOWANCE	2.0 GB
PLAN SPEED	10 Mbps ↓ / 3 Mbps ↑
SPEED IF USAGE >200MB	32 Kbps ↓ / 32 Kbps ↑

Last update: 2020-04-15 14:04 UTC · 12345678

TracNet terminals have integrated IoT proactive monitoring functionality that reports daily on 150+ vital health and performance parameters to optimize your system for the most reliable and effective experience

KVH ONE Hybrid Network Coverage*

View up-to-date and terminal-specific coverage maps at **kvh.com/tracnetmaps**
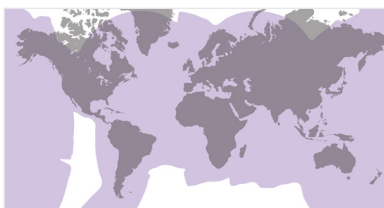
Global HTS Coverage
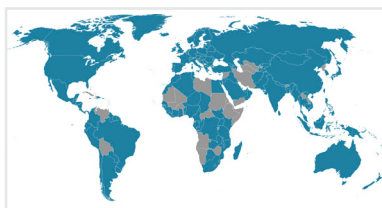
Cellular Coverage

⊘ Global HTS Ku-band satellite network, with 276 million sq km (106 million sq miles) of coverage, powered by Intelsat

⊘ Cellular support in 150+ countries as far as 32+ km (20+ miles) offshore

⊘ Compatible with shore-based Wi-Fi networks

*Actual coverage and availability may vary. Data rates may also vary in different regions. KVH provides no guarantees of coverage or availability. For the most up-to-date coverage maps, visit kvh.com/tracnetmaps.

kvh.com/one

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TracNet™ 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.

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
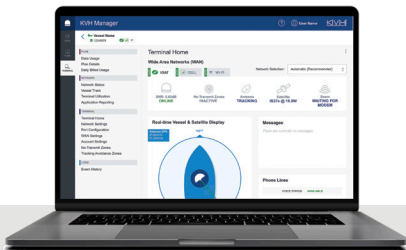
Belowdeck Units

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[1]	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 kvh.com/tracnetcables 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[2]
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 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	
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

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 ×4 MIMO
UMTS (3G)	WDCMA	

Data Rates (max)[3]		
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[4]	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 CE 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] Optional Belowdecks Mounting Case (Part Number 72-0368) available for vessels without a rack.

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

[4] Unless subject to in-country regulations. Restrictions apply. Visit kvh.com/warranty for details.
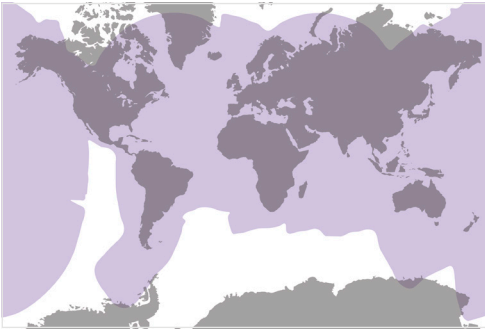
KVH Global, Layered Ku-band HTS Network Coverage

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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Leisure Airtime Rate Sheet
KVH ONE™ TracNet™ H60

Effective 1 July 2022

Enjoy the power of global hybrid connectivity with seamless automatic switching between high-speed VSAT, 5G/LTE cellular connectivity in 150⁺ countries[1], and shore-based Wi-Fi. All plans are month-to-month, with no annual contract, and flexible suspension policies. Getting started is easy, follow these three simple steps!

STEP 1:
Select Your **High-Speed** VSAT Rate Plan

Choose between a **high-speed plan with shaped data rates** and plan with no overages, or a **high-speed metered** plan with affordable overages.

Save $300/mo
when you subscribe to 2 active channels!

High-Speed Plans

High-speed fixed price with unlimited use

If the monthly high-speed data allotment is consumed, the system will automatically shift to the unlimited use shaped data rate and reset to the high-speed data rate on the first day of the following month.

Plan Name	$/month (USD) (single channel subscription price)	High-speed Data/month	High-speed Data Rate[2]	Unlimited Use, Shaped Data Rates[2]
HS-RDY[3]	$0	High-speed-ready; Upgrade to Active HS Service Available		
H60L-5GB	$1,029	5 GB	10/3 Mbps (down/up)	128/64 Kbps (down/up)
H60L-10GB	$1,459	10 GB		
H60L-20GB	$2,089	20 GB		256/128 Kbps (down/up)
H60L-40GB	$3,309	40 GB		
H60L-80GB	$6,029	80 GB		
H60L-150GB	$10,659	150 GB		

High-Speed Metered Plans

Lowest cost, affordable overage rates

Simple, usage-based VSAT plans that offer the highest speeds and lowest costs with user-friendly tools for monitoring and controlling data usage.

Plan Name	$/month (USD) (single channel subscription price)	Overage Rates US$/MB
HS-RDY[3]	$0	High-speed-ready; Upgrade to Active HS Service Available
H60LM-5GB	$879	$0.37
H60LM-10GB	$1,309	$0.27
H60LM-20GB	$1,939	$0.21
H60LM-40GB	$3,159	$0.16
H60LM-80GB	$5,879	$0.13
H60LM-150GB	$10,509	$0.11

STEP 2:
Select Your **Unlimited Use** VSAT Rate Plan

Get the security of unlimited airtime use[4] at a fixed price with the TracNet H60's speed-based rate plans.

Plan Name	$/month (USD) (single channel subscription price)	Download[2]	Upload[2]
UL-RDY[3]	$0	Unlimited Use-ready; Upgrade to Active UL Service Available	
H60LU-128/64	$599	128 Kbps	64 Kbps
H60LU-256/64	$999	256 Kbps	64 Kbps
H60LU-512/128	$1,899	512 Kbps	128 Kbps
H60LU-1/256	$2,949	1 Mbps	256 Kbps
H60LU-1/512	$3,759	1 Mbps	512 Kbps
H60LU-2/512	$4,769	2 Mbps	512 Kbps
H60LU-4/1	$7,879	4 Mbps	1 Mbps
H60LU-8/2	$13,749	8 Mbps	2 Mbps

STEP 3: Activate the integrated **KVH cellular service**

Take full advantage of KVH ONE's global hybrid network covering 150⁺ countries by choosing to activate the optional integrated KVH cellular service for only $99/month!

[1] 5G and LTE-A cellular speeds where available and compatible with the KVH- or user-supplied SIM cards and service
[2] Published data speeds are maximum speeds and may vary in different regions and under different conditions.
[3] Only available when subscribing to an active, paid plan on the alternate channel.
[4] Restrictions may be imposed on access to data-intensive applications and protocols.

KVH ONE TracNet H60

TracNet H60's VSAT airtime plans include two VoIP phone lines for Enhanced Voice Service, with calls to land or mobile lines for as low as $0.05/minute

TracNet H60 Global HTS Coverage
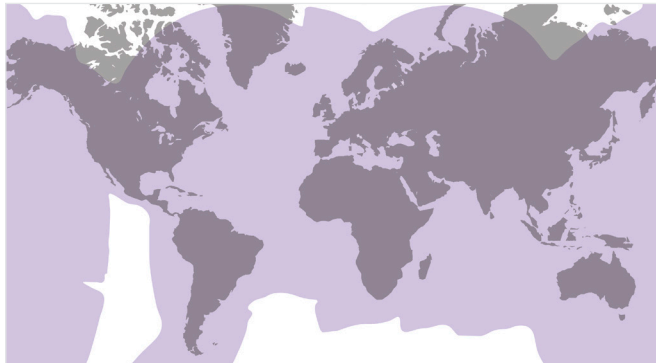
Ku-band Coverage

*The map depicts KVH's expectations for the KVH ONE Global HTS network's coverage for the TracNet H60. For the most up-to-date coverage maps, visit **kvh.com/tracnetmaps**.
Actual coverage and availability may vary. Data rates may also vary in different regions.
KVH provides no guarantees of satellite coverage or availability.*

TracNet H60 Cellular Coverage
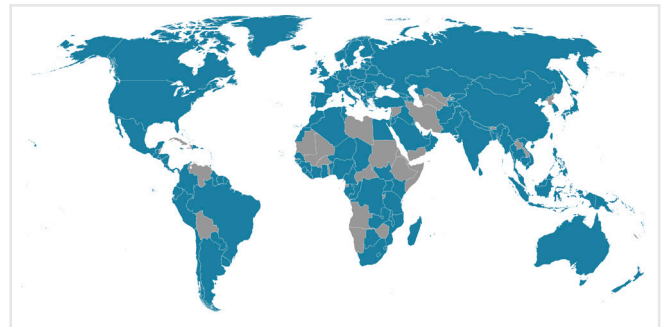
The KVH ONE cellular airtime plan is a monthly credit towards usage in all active destination zones. Usage is calculated and charged by the MB at each destination zone's $/GB rate. The Tier 1 and Tier 2 zones are on (active) by default, while you have the option to activate the Tier 3 and Tier 4 zones. Visit kvh.com/lteglobalzones for details.

*For the most up-to-date coverage maps, visit **kvh.com/tracnetmaps**.
Actual coverage and availability may vary. Data rates may also vary in different regions.
KVH provides no guarantees of cellular coverage or availability.*

Flexible Tools to Manage Your Network and Data

Unique Application Category Control tool to Allow, Restrict, or Block data usage in eleven application category groups to limit unintended data consumption. 100% transparency with easy-to-use alerts, system configuration tools, and data allocation controls via the secure myKVH™ portal's suite of tools.

Looking for Commercial pricing?

Contact KVH Sales for details: sales@kvh.com

General Terms

- All prices are in $USD and do not include any taxes or fees that may apply.
- All services and plans are subject to the KVH Master Services Agreement.
- HTS network published data rates are rate plan maximums and may vary in different regions and under different conditions. Service reception may be affected by environmental or operational conditions and its uninterrupted availability is not guaranteed.
- No annual contract for purchased equipment; rate plans are month-to-month, automatically renewing on a monthly basis. For leased terminal equipment, the contract term must be concurrent with, and extend to, the end of the lease period.
- VoIP-only Suspension Plan is offered at $164/month with no limitation on number of months used. May not be used as activation plan. Plan change fee does not apply.
- Subscribers are permitted to change rate plans at any time; $100 fee applies for each downward plan change, except during the first 90 days of the initial contract to allow the subscriber to determine the plan most appropriate for their usage needs. For complete details, see "Airtime Rate Plan Change/Suspension Policies" at kvh.com/airtimeresources.

- KVH offers first voice line at no charge and second voice line at $31/month. KVH-assigned voice line phone numbers for either line are provided at no charge. User-specified voice line phone numbers for either line are $31/month.
- Virtual local phone numbers can be added for a monthly fee of $31 per number (5 max per voice line) where available/subject to in-country regulations.
- Outgoing calls and faxes are subject to long distance charges. See details on the "KVH Enhanced Voice Service Long Distance Rate Sheet" at kvh.com/airtimeresources.
- Global Static IP Service is available for $30/month per IP address. Visit kvh.com/staticip for details.
- BitTorrent and all such data-intensive applications and protocols will be blocked by KVH.

kvh.com/one