TracPhone® V30
The ultra-compact, fast, and affordable VSAT solution

The TracPhone V30 is KVH's ultra-compact maritime VSAT solution. Receive fast, affordable service with your choice of metered and unlimited use airtime plans via next-generation, high-throughput satellites (HTS) from Intelsat with additional coverage from SKY Perfect JSAT. The innovative digital terminal with a 37 cm (14.5") diameter dish offers higher signal strength and efficiency, an easily installed single-cable, DC-powered design with a compact belowdecks unit, and data speeds as fast as 6/2 Mbps (down/up).

1. Ultra-high efficiency antenna using KVH's RingFire™ design and groundbreaking dielectric rod feed ensures excellent Ku-band reception even in bad weather

2. High-performance tracking with 2-axis pedestal design and stabilized skew driven by dual IMUs and high-performance, advanced motor controllers

3. Digital antenna design with integrated high-speed modem delivers higher signal strength (no cable loss)

4. Commercial-grade rotary joint for unlimited rotation

5. Gigabit Ethernet and power over a single coaxial cable for easier and faster installation

The VSAT-Hub is the streamlined all-in-one belowdecks unit that powers the TracPhone V30. This IP-enabled antenna control unit includes versatile network management software, data routing, and firewall security, plus a Voice over IP (VoIP) adapter, built-in Wi-Fi, and an Ethernet switch. Almost 90% smaller by volume than 2U rack-mounted belowdecks units, it's easier to install and ideal for vessels with limited space.

TracPhone V30 with mini-VSAT Broadband HTS Service

System Specifications

Service

Network	mini-VSAT Broadband HTS network
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)/10.6 kg (23.4 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 1.7 mm/min, w/wind speeds up to 100 knots
Heading Input	NMEA 0183 and NMEA 2000 magnetic or true heading
Antenna Unit Power	48 VDC input from the VSAT-Hub
VSAT-Hub to Antenna Unit Connection	Single coaxial cable

Belowdecks Equipment – VSAT-Hub

Dimensions	23.6 cm x 20.5 cm x 4.4 cm (9.34" x 8.05" x 1.73"); will fit in 1U slot
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)
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; USB 3.0 Port
Voice Interfaces	1 RJ11 port for VoIP services

System Options

KVH OneCare™ Support Program	Available; see kvh.com/onecare for details

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[2]	Comprehensive 2-year parts, 2-year labor warranty supported by KVH's worldwide Certified Support Network (CSN)
Part Number	01-0432-01

Meets FCC and 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]Unless subject to in-country regulations. Restrictions apply. Visit www.kvh.com/warranty for details.

System Diagram

Ethernet & Power over Coax (EPoC)

Power: 10-30 VDC, 125W Max

TracPhone V30 Antenna and VSAT-Hub

Competing 60 cm Ku-band VSAT Antenna
90 cm D, 60 kg (35.5" D, 132 lbs)

TracPhone V30
39.4 cm D, 10.6 kg (15.5" D, 23.4 lbs)

With an antenna that is 55% smaller in diameter and 75% lighter than that of leading competing 60 cm VSAT systems, the commercial-grade TracPhone V30 offers higher or comparable data speeds, but is more affordable, and easier and simpler to install.

mini-VSAT Broadband HTS Network Coverage Map

Ku-band Coverage

Anticipated Future Coverage

TracPhone V30 has a 2-axis stabilized antenna pedestal design that does not provide coverage in areas where the satellite is directly overhead.

The map depicts KVH's expectations for the mini-VSAT Broadband HTS network's coverage for the TracPhone V30; actual coverage and availability may vary. Data rates may also vary in different regions. Go to www.kvh.com/v30map to view our global coverage maps for TracPhone V30 metered and unlimited use service.

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