

TracPhone® V11

with mini-VSAT BroadbandSM Service



Revolutionary satellite communications for broadband at sea



Key Features and Attributes

- World's smallest dual-mode C/Ku-band antenna, with seamless switching for always-on, broadband connectivity and global coverage
- Fully integrated modem and IP-enabled antenna control unit – the brand new CommBox-ACU – make TracPhone V11 the top choice for simplified onboard networking
- 85% smaller by volume and lighter than older C-band VSAT antennas for easier, faster, and less expensive installations
- Downloads as fast as 4 Mbps shore-to-ship, and uploads as fast as 1 Mbps ship-to-shore
- Two integrated voice lines optimized for use with satellite services with expansion capability for up to nine concurrent voice lines
- 3-axis gyro-stabilized antenna with 4th axis of automatic skew adjustment tracks satellites from directly above the vessel to low on the horizon
- Proprietary ArcLight® spread spectrum satellite technology for faster data transmissions and superior reception
- Flexible, affordable airtime packages for every SATCOM budget
- Maritime SATCOM's only end-to-end solution: antenna hardware, network, airtime, and 24/7/365 after-sale support are all from KVH

Dual-mode Capability from One Compact Antenna

The remarkable dual-mode C/Ku-band TracPhone V11 uses a single 1.1 meter antenna dish to seamlessly access both the C- and Ku-band satellites of the mini-VSAT Broadband network for truly global coverage. Unlike competing L-and and Ku-band solutions that require two terminals joined with a router, the TracPhone V11 is a unified solution – automatically locking onto Ku-band service in most parts of the world, and immediately switching to C-band service when Ku-band service is unavailable because of geography or extreme weather. The TracPhone V11 has received full approval from the U.S. Federal Communications Commission (FCC), including use on vessels under 300GT – a first for C-band maritime antennas. Thanks to the availability of worldwide Ku-band coverage around all coastal areas, it also overcomes the 200km regulatory limit of single mode C-band VSAT systems.

Technology Breakthrough in a Fully Integrated System

The TracPhone V11's completely integrated belowdecks unit includes an ArcLight® spread spectrum modem and KVH's breakthrough IP-enabled antenna control unit – the CommBox-ACU, featuring a built-in CommBox Network Manager, VoIP adapter, Ethernet switch, and WiFi capabilities for reliability and simple installation and use.

Global VSAT Coverage for Reliable Connectivity

TracPhone V11's unique 3-axis gyro stabilized pedestal with a 4th axis of automatic skew adjustment seeks the optimum satellite within the mini-VSAT Broadband network and tracks it through the full dynamic specifications required by commercial vessels. The mini-VSAT Broadband C/Ku-band network delivers premium quality, multimegabit offshore connectivity via 14 powerful Ku-band satellite transponders covering the world's most populated areas, and 3 C-band transponders adding an overlay of global coverage.

Premium Quality from the #1 Maritime VSAT Service

In a number of major industry-wide competitive evaluations run by leading commercial maritime companies and government agencies, KVH's mini-VSAT Broadband service has been selected as offering the best speed, the lowest latency, and the best lifetime value. This quality and value has made mini-VSAT Broadband the No. 1 maritime VSAT service in the world.



TracPhone V11 Antenna System Specifications

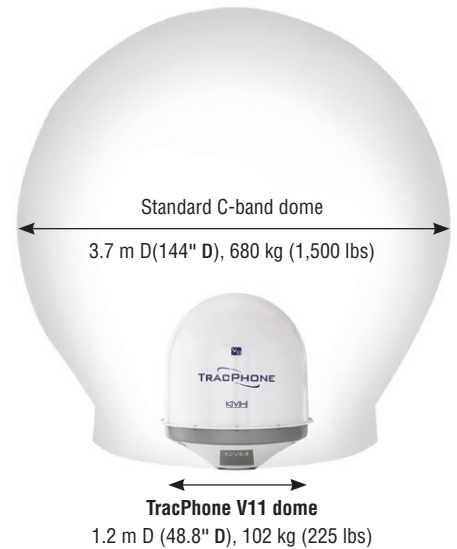
Service	
Network	mini-VSAT Broadband
Antenna Type	Dual-mode C/Ku-band
Service Coverage Area	Global except Arctic Regions
Maximum Download/Upload Speed ¹	4 Mbps/1 Mbps
Abovedecks Equipment	
Antenna Dish Diameter	1.1 m (42.5")
Antenna Unit Dimensions/Weight	1.2 m D x 1.4 m H (48.8" D x 57.3" H) / 109 kg (240 lbs)
Elevation/Azimuth Range	-24° to +119° / 720° rotation
Temperature	Operating: -30°C to 55°C (-22°F to 131°F) Survival: -30°C to 70°C (-22°F to 158°F)
Humidity	IEC 60945; 40°C (104°F), 95% Humidity (non-condensing)
Rain	Precipitation rate of 100L/Min, w/wind speeds up to 100 knots
Heading Input	NMEA 0183 magnetic or true heading
Antenna Unit Power	100-240 VAC, 50-60 Hz auto switching, 500 watts; provided at the dome
CommBox-ACU to Antenna Unit Communications	16 Conductor Data Cable
L-band RF Cables (customer supplied)	75 Ohm – F-Connector terminations; For 5-30 m (16-98 ft.) choose LMR-400-75 For >30-90 m (98-295 ft) choose LMR-600-75
Remote Support	Integrated GPRS modem for access by KVH technical support
Belowdecks Equipment (CommBox-ACU & Modem)	
Dimensions	3U, 48 cm (18.9") rack-mountable with optional mounting provisions
Weight	7 kg (15.3 lbs)
Temperature	Operating: -15°C to 55°C (5°F to 131°F) Survival: -15°C to 70°C (5°F to 158°F)
Input Power	Modem: 100-240 VAC, 50-60 Hz auto switching, 3 A max; CommBox-ACU: 100-240 VAC, 50-60 Hz, 6 A max
Data Interfaces	4 Ethernet: IEEE 802.3 10BASE-T/100BASE-TX, 100 Mbps; 1 Wi-Fi 802.11
Voice Interfaces	2 RJ11 ports for VoIP services
Complete System	
Certification	Complies with the specifications of EC directive 1999/5/EC Radio & Telecommunications Terminal Equipment (R&TTE), per compliance with EC directive 2006/95/EC, EMC directive 2004/108/EC and IEC 301-427
Warranty ²	Comprehensive 2-year parts, 1-year labor warranty supported by KVH's worldwide Certified Support Network (CSN)
Part Number / MSRP (USD)	01-0350-01 / \$74,995 (rack-mountable CommBox-ACU & modem) 01-0350-02 / \$75,995 (case-mounted CommBox-ACU & modem)

Meets Inmarsat operational, survival, and shock specifications, and FCC and CE requirements.
¹Published data speeds are maximum speeds and may vary in different regions and under different conditions.
²Unless subject to in-country regulations. Restrictions apply. Visit www.kvh.com/warranty for details.

System Diagram

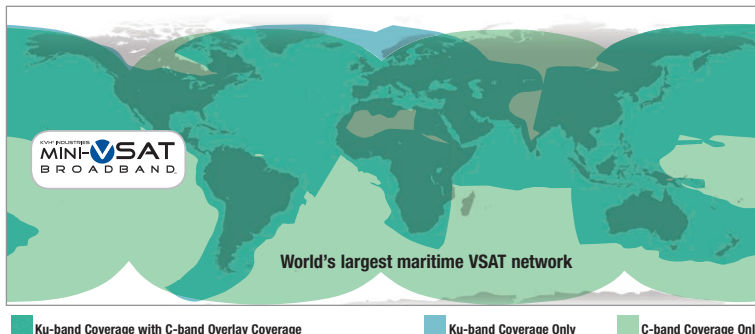


CommBox-ACU with ArcLight Modem –
 CommBox-ACU features a built-in CommBox Ship/Shore Network Manager, Voice over IP (VoIP), Ethernet switch, and Wi-Fi capabilities



85% smaller in volume and lighter than standard C-band antennas, TracPhone V11 is faster, easier, and less expensive to install.

mini-VSAT Broadband C/Ku-band Coverage*



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