



HARDWARE

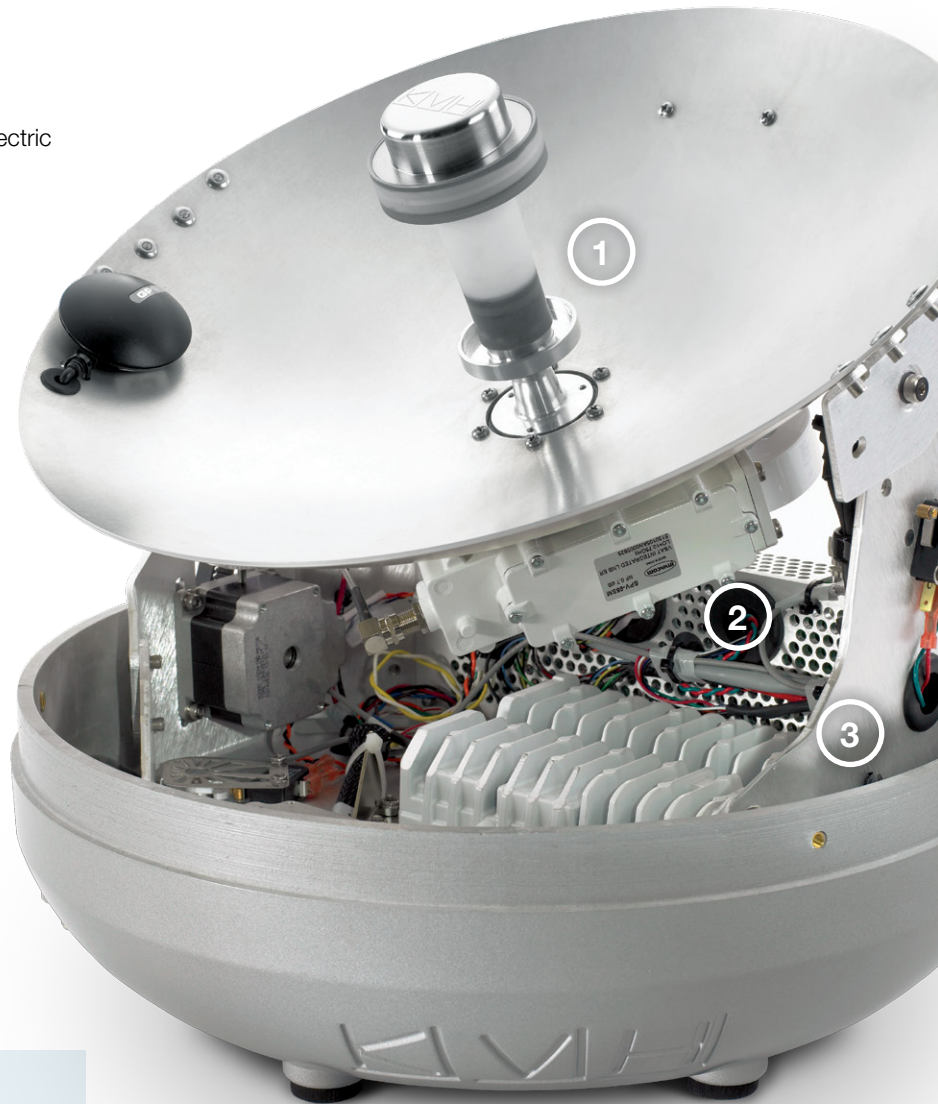
KVH® INDUSTRIES
MINI-VSAT
BROADBAND™

TracPhone V3IP

Small antenna, big performance

The ultra-compact TracPhone® V3IP provides always-on broadband data connections, an integrated voice line, worldwide coverage from the mini-VSAT BroadbandSM network, and dramatically reduced airtime costs.

- 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 Advanced antenna controller for high-speed tracking
- 3 Dynamic, gyro-stabilized system seeks the optimum satellite within the mini-VSAT Broadband network and tracks it through the full dynamic motion experienced by commercial vessels



All VIP-series products include KVH's new **Integrated CommBox Modem (ICM)** with IP-enabled antenna control unit, CommBox™ Network Manager, ArcLight® spread spectrum modem, Voice over IP adapter, and built-in Wi-Fi and Ethernet switch. Systems also feature a browser-based user interface and convenient iPhone® app for system status, updates, and support.

System Specifications

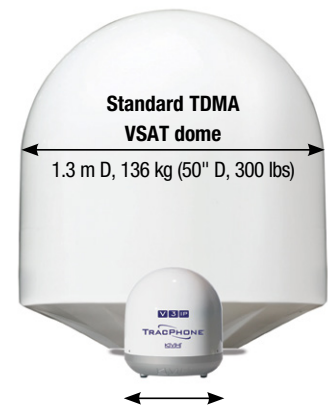
System Diagram

Service	
Network	mini-VSAT Broadband
Antenna Type	Ku-band
Service Coverage Area	Seamless Worldwide Regions
Maximum Speed Download/Upload ¹	2 Mbps/128 Kbps
Above-decks 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)/11.3 kg (25 lbs)
Elevation/Azimuth Range	7.5° to 75°/720° rotation
Temperature	Operating: -25°C to 55°C (-13°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 100L/min, w/wind speeds up to 100 knots
Antenna Unit Power	DC; provided by ICM
ICM to Antenna Unit Communications	14 Conductor Data Cable
L-band RF Cables (customer supplied)	For 5-15 m (16-49 ft.) choose RG-11 For >16-30 m (49-98 ft.) choose LMR-400-75 For >31-45 m (98-148 ft.) choose LMR-600-75
Below-decks Equipment – Integrated CommBox Modem (ICM)	
Dimensions	42.6 cm l x 41.4 cm w x 2U h (16.8" x 16.3" x 2U) rack-mountable with optional mounting provisions ²
Weight	5.1 kg (11.25 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	100-240 VAC, 50-60 Hz auto switching, 1.6 A max
Data Interfaces	4 Ethernet: IEEE 802.3 10BASE-T/100BASE-TX, 100 Mbps; 1 Wi-Fi 802.11; 3 USB ports
Voice Interfaces	1 RJ11 port for VoIP services
System Options	
CommBox Software Bundles Available	Standard or Enterprise Bundles - see "Featured Options" at kvh.com/V3IP for details
Iridium Pilot® Secondary System	Available as standalone system (Part Number 72-0537-01) or V3IP/Iridium Pilot System Bundle w/ least cost routing (Part Number 01-0357-01); see "Featured Options" at kvh.com/V3IP for details
IP-MobileCast™ Services	Available; see minivsat.com/one for commercial applications and minivsat.com/vipyachts for leisure applications
UCH-250 Fax Server	For enterprise-grade faxing over IP (Part Number 19-0520); contact KVH for details
KVH OneCare™ Support Program	Available; see kvh.com/onecare for details
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
System Warranty ³	Comprehensive 2-year parts, 2-year labor warranty supported by KVH's worldwide Certified Support Network (CSN)
Part Number/MSRP (USD)	01-0335-11/\$16,995



Integrated CommBox Modem (ICM) –

Streamlined belowdecks unit includes: IP-enabled antenna control unit, built-in CommBox Ship/Shore Network Manager, ArcLight spread spectrum modem, Voice over IP adapter, and built-in Wi-Fi and Ethernet switch.



Standard TDMA VSAT dome
1.3 m D, 136 kg (50" D, 300 lbs)

TracPhone V3IP
39.4 cm D, 11.3 kg (15.5" D, 25 lbs)

95% smaller in volume than standard TDMA VSAT antennas and the world's smallest maritime VSAT, TracPhone V3IP is easier and less expensive to install.

Meets FCC and CE requirements. Exceeds Inmarsat operational, survival, and shock specifications.

¹Published data speeds are maximum speeds and may vary in different regions and under different conditions.

²Optional Belowdecks Mounting Case (Part Number 72-0368) available for vessels without a rack.

³Unless subject to in-country regulations. Restrictions apply. Visit www.kvh.com/warranty for details.



mini-VSAT Broadband Ku-band Coverage

The TracPhone V3IP is a two-axis, stabilized antenna that does not provide coverage in areas where the satellite is directly overhead as shown in the hatched areas to the left. KVH offers a TracPhone V3IP/Iridium Pilot system bundle that offers pole-to-pole global coverage.

The map depicts KVH's expectations for mini-VSAT Broadband's coverage; actual coverage and availability may vary. Data rates may also vary in different regions.

Go to www.kvh.com/minivsatmap to view our coverage map and for complete details.

KVH provides no guarantees of satellite coverage or availability.

*KVH is the world's No. 1 maritime VSAT supplier as measured by vessels equipped with mini-VSAT Broadband service, according to Comsys, March 2015, and Euroconsult, March 2014.



KVH Industries A/S
EMEA Headquarters
Kokkedal, Denmark
Tel: +45.45.160.180 Fax: +45.45.160.181
Email: info@emea.kvh.com

KVH Industries, Inc.
World Headquarters
Middletown, RI U.S.A.
Tel: +1.401.847.3327 Fax: +1.401.849.0045
Email: info@kvh.com

KVH Industries Pte Ltd.
Asia-Pacific Headquarters
Singapore
Tel: +65.6513.0290 Fax: +65.6472.3469
Email: info@apac.kvh.com