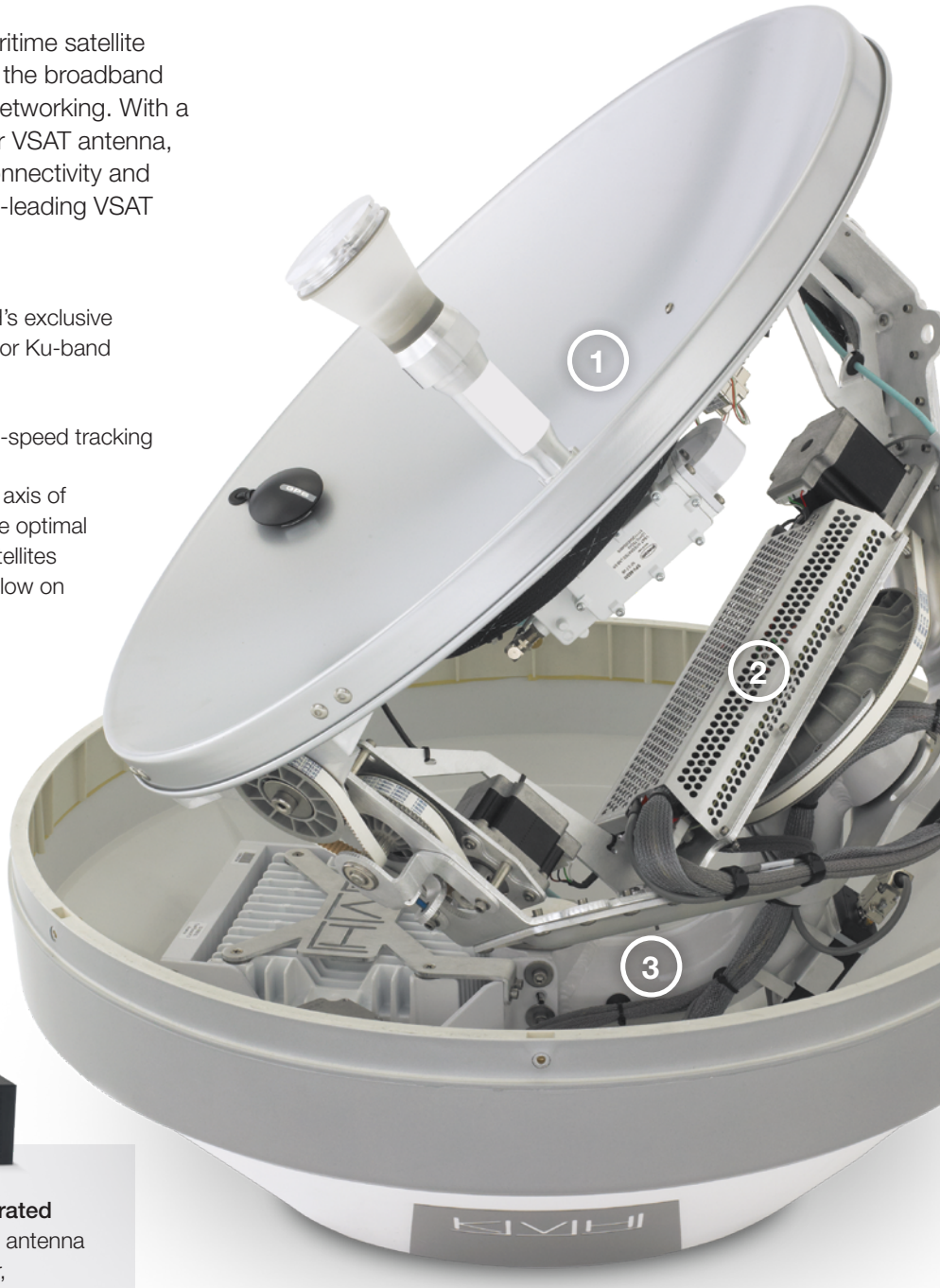
Product Specifications

TracPhone V7IP

Enterprise-grade, feature-packed Ku-band maritime VSAT terminal

TracPhone® V7IP is a breakthrough maritime satellite communications product designed for the broadband era and its requirements for onboard networking. With a 3-axis, gyro-stabilized, 60 cm diameter VSAT antenna, TracPhone V7IP provides always-on connectivity and worldwide coverage using the industry-leading VSAT network – mini-VSAT Broadband℠.



1. Highly tuned antenna dish using KVH's exclusive RingFire™ technology ensures superior Ku-band reception
2. Advanced antenna controller for high-speed tracking
3. Three-axis pedestal design with a 4th axis of automatic skew adjustment seeks the optimal satellite in the network and tracks satellites directly overhead at the equator and low on the horizon at polar latitudes

All VIP-series products include KVH's **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.

TracPhone V7IP with mini-VSAT Broadband Service

System Specifications

Service	
Network	mini-VSAT Broadband
Antenna Type	Ku-band
Service Coverage Area	Seamless Worldwide Regions
Maximum Speed Download/Upload[1]	3 Mbps/512 Kbps
Abovedecks Equipment	
Antenna Dish Diameter	60 cm (24")
Antenna Unit Dimensions/Weight	66.6 cm D x 79.2 cm h (26.1" D x 31.2" h)/26.1 kg (57.6 lbs)
Elevation/Azimuth Range	-24° to +119°/720° 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
Heading Input	**NMEA 0183 magnetic or true heading**
Antenna Unit Power	**DC; provided by ACU**
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
Remote Support	**Integrated GPRS modem for access by KVH technical support**
Belowdecks 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, 250W max
Data Interfaces	4 Ethernet: IEEE 802.3 10BASE-T/100BASE-TX, 100 Mbps; 1 Wi-Fi 802.11; 3 USB ports
Voice Interfaces	2 RJ11 ports for VoIP services
System Options	
CommBox Software Bundles Available	Standard or Enterprise Bundles - see "Featured Options" at kvh.com/v7ip for details
Built-in Crew Calling Gateway	Available; contact Airtime Services 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
Iridium Pilot® Secondary System	Available (Part Number 72-0537-01); see "Featured Options" at kvh.com/v7ip 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)	**01-0283-15/$24,995**

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]Optional Belowdecks Mounting Case (Part Number 72-0368) available for vessels without a rack.
[3]Unless subject to in-country regulations. Restrictions apply. Visit www.kvh.com/warranty for details.

System Diagram

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.

TracPhone V7IP dome
66.6 cm D, 26.1 kg (26.1" D, 57.6 lbs)

85% smaller in volume than standard TDMA VSAT antennas, TracPhone V7IP is easier and less expensive to install.

mini-VSAT Broadband Ku-band Coverage

Coverage maps are representative and may change at any time. Data rates may also vary in different regions. For complete details, choose "TracPhone" at www.kvh.com/footprints and click on the mini-VSAT Broadband coverage map. 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 NSR's Maritime SATCOM Markets, 4th Edition, June 2016, and the COMSYS Maritime VSAT Report, 4th Edition, March 2015.

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ISO 9001

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