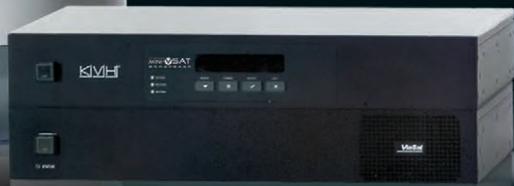




TRACPHONE[®] V3

The next generation in marine SATCOM, here today.



KIVH[®]

KVH[®] INDUSTRIES
MINI-VSAT
BROADBAND[™]
WORLD'S NO. 1 MARITIME VSAT SERVICE

TracPhone V3

A truly affordable, ultra-compact solution for satellite Internet & phone

Satellite communications is now small, simple, fast, global, and affordable...all at once. Say hello to the TracPhone V3!

The revolutionary TracPhone V3 changes the game when it comes to satellite communications for your boat. With a 37 cm (14.5") diameter dish, it's the world's smallest maritime VSAT antenna. With airtime rates 1/10th the cost of Inmarsat FleetBroadband, TracPhone V3 is the perfect solution for staying in touch with office, friends, and family on shore while you are on the water. Enjoy surfing the web, communicating via e-mail, and calling home with a system designed for boats as small as 30 feet.

More than 85% smaller by volume and 75% lighter than 1-meter VSAT antennas

The system's ultra-compact antenna unit weighs just 11 kg (25 lbs), making installation fast and inexpensive.

Plus, TracPhone V3 is designed exclusively for the mini-VSAT Broadband network, which has the widest Ku-band coverage in the world.

Delivering VSAT speeds & economical airtime without VSAT size

TracPhone V3 brings the blazing download speeds of VSAT (as fast as 2 Mbps) to your boat with an antenna less than half

the size of the nearest competing product – thanks to ViaSat's ArcLight® spread spectrum technology. And all with airtime costs of only \$0.99 per MB, voice calls worldwide to both landlines and cell phones for only \$0.49 per minute, and global coverage via the mini-VSAT Broadband network – the leader in maritime VSAT. Developed using KVH's RingFire™ antenna design and dielectric feed technology, the TracPhone V3 offers robust two-way Internet connections, a crystal-clear voice line, and a rugged, high-performance design ideal for any type of boat or yacht, and perfect for use on tuna towers! For staying in touch with friends and family or keeping up with office communications, boaters stay connected with TracPhone V3.



Highlights of the remarkable TracPhone V3

- World's smallest maritime VSAT system, made possible by spread spectrum satellite technology, brings fast, affordable satellite Internet and phone onboard
- Unrivaled end-to-end solution ensures reliability and ease of use: KVH is the only company that manufactures the antenna hardware, operates the network, provides the airtime services, and manages a 24/7/365 industry-leading after-sale support system
- Download speeds as fast as 2 Mbps at only \$0.99 per MB
- Crystal-clear voice calls worldwide at only \$0.49 per minute to land or cell
- Seamless coverage worldwide, perfect for your favorite cruising or fishing grounds, offshore excursions or round-the-world voyages



“

I had already tried the other maritime broadband solutions on the market, and I chose the TracPhone V3 and mini-VSAT Broadband because I wanted the best.

*Andrea Recordati
Owner, Indio
100-ft Wally yacht*

”

One unified system

KVH's TracPhone V3 system not only includes the fully stabilized, compact antenna unit, but the belowdecks control unit and groundbreaking modem. Sleek, rack-mountable, and rugged, the control unit and modem offer user-friendly operation and house a powerful set of processors that makes the speed and reliability of mini-VSAT Broadband's spread spectrum communications a reality. TracPhone V3 also includes an integrated Ethernet switch, so you can instantly connect every computer onboard to the Internet and the rest of your digital world.

KVH[®] INDUSTRIES
MINI-VSAT
BROADBAND
WORLD'S NO. 1 MARITIME VSAT SERVICE

AWARD WINNER
TRACPHONE V3
2012 COMMUNICATIONS PRODUCT AWARD

mini-VSAT Broadband

Global, affordable, high-speed communications – what broadband at sea was meant to beSM

Small dome, big service – groundbreaking spread spectrum technology makes it possible

Choose KVH's mini-VSAT Broadband service and ultra-compact TracPhone V3 antenna for the highest quality VSAT service – all with an antenna system small enough to go to sea on any size vessel, from a 30-footer to a megayacht. Advanced spread spectrum technology invented by KVH's technology partner, ViaSat, enables TracPhone V3's breakthrough design, with no compromise in coverage or data speed. Previously available only to corporate jets and the military, spread spectrum technology comes onboard your boat or yacht with mini-VSAT Broadband, offering always-on service at the fastest data rates.



What's behind the data speed?

The mini-VSAT Broadband service's ArcLight[®] spread spectrum technology employs Code Reuse Multiple Access (CRMA), which allows simultaneous data transmissions that are immediately burst onto the network across the entire available satellite capacity. The result is extremely low and consistent network latency of typically less than 600 milliseconds for quality VoIP calls, data service with more consistent speeds, and shorter ping times resulting in faster web page loads. By contrast, older maritime L-band and VSAT systems still utilize Time Division Multiple Access (TDMA), which divides bandwidth into time slots, forcing users to wait their turn.



Fixed-assignment TDMA VSAT systems divide bandwidth into time slots, forcing users to wait their turn.



KVH mini-VSAT Broadband systems employ advanced CRMA technology, allowing simultaneous transmission for all users for faster, consistent data speed.

Huge savings with the fastest data rates

One of the greatest advantages of mini-VSAT Broadband service with TracPhone V3 is the breakthrough low price for voice and data. All phone calls worldwide to both land and cell cost just \$0.49 per minute. All data plans are based on a rate of just \$0.99 per MB, starting as low as \$49 per month for 50 MB. With faster data rates and per-megabyte costs up to 90% lower than Inmarsat, mini-VSAT Broadband service is the ideal solution when you need Internet and phone access at sea.

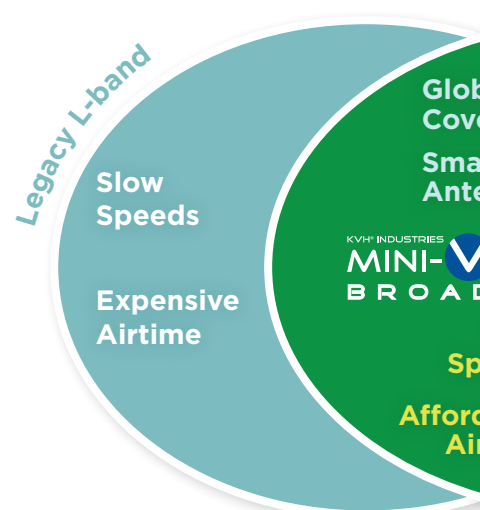
You can do a lot with a MB!

The guide below shows the approximate data usage of different types of files. You'll find that with a TracPhone V3 onboard, you'll actually use your satellite communications system rather than only having it for emergencies and backup.

Send/Receive/Download:	Approx. Data Usage:
1 E-mail (text only)	0.01 MB
1 E-mail w/attachment (typically Word, PowerPoint or Excel)	0.30 MB
1 Web page load	0.30 MB
1 Hi-res smartphone photo	1.00 MB
1 30-second YouTube clip	1.50 MB
1 3-minute song	1.75 MB

1,024 KB = 1 MB; approximate usage only; actual amount of data for described activity can vary significantly.

The best of both worlds





“ The mini-VSAT Broadband service has superseded our expectations with regards to ease of use and also the speeds we could utilize on the Internet. ”

Garrath Getley
Captain, Paradigm
115-ft Benetti Classic

Fast data and crystal-clear voice connections at all times, in all the places you love to cruise

Rely on TracPhone V3 and mini-VSAT Broadband to keep you online and in touch while underway. TracPhone V3 provides high-speed, reliable Internet and voice connections throughout a vast worldwide coverage area. This fully integrated enhanced voice service is optimized for satellite communications. Enjoy call forwarding, voicemail forwarding to your computer, and network voice prioritization – which protects the bandwidth allocated to the VoIP line so data transmission won't interrupt your calls – and ensures crystal-clear calls with the best voice quality.



Courtesy of Meridian Yachts

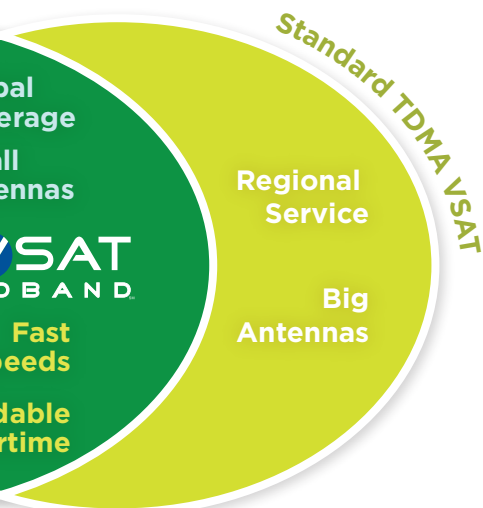
mini-VSAT Broadband lets you enjoy a “cable modem” experience at sea wherever you travel

You need a powerful, reliable connection while at sea, whether to stay in touch with your home office, manage your business, or allow guests and crew to stay in touch with loved ones. With worldwide coverage and seamless roaming, you can rely on TracPhone V3 and mini-VSAT Broadband to keep you connected, offering:

- E-mail and instant messaging
- Voice line & 5 virtual phone numbers
- Internet browsing
- Access to corporate networks (VPNs)
- Weather and chart updates
- Data transfers
- Dedicated crew calling¹



Both worlds!



An end-to-end solution for hardware, service, and support, with KVH as your single point of contact

The TracPhone V3 with mini-VSAT Broadband offers an end-to-end design with tightly coordinated hardware, airtime service, and support. With KVH as your single point of contact, you'll always know who to call for easy, one-call system and airtime service activation as well as comprehensive customer support with a global network of highly trained marine electronics specialists. From installation to activation to customer support, you can rest assured that your investment is backed by a qualified, easy-to-reach support team. Perhaps that's why mini-VSAT Broadband is now the #1 maritime VSAT service.²

¹Requires optional equipment. See your authorized KVH dealer for details.
²Euroconsult Report, March 2012; NSR Report, May 2012

KVH Advantage

The quality end-to-end solution for maritime VSAT

“ We don't worry about wasting time going back and forth between service and hardware providers playing the 'blame game' – if we're having an issue, we call KVH, period.

Ken Maff
Captain, Kapalua
115-ft Crescent



GlobalCare Premium Support Program

While KVH offers the best service in the industry, we know some vessels have critical connectivity needs and, as a result, may want an added level of service and support. That's why we offer the GlobalCare Premium Support Program for TracPhone V-series customers. Starting with 24/7/365 dedicated hotline numbers to the GlobalCare Center, and using a tiered service support system worldwide, GlobalCare guarantees your vessel a new level of support and responsiveness should you experience a technical issue.

Contact KVH or your dealer for details or visit www.kvh.com/globalcare.

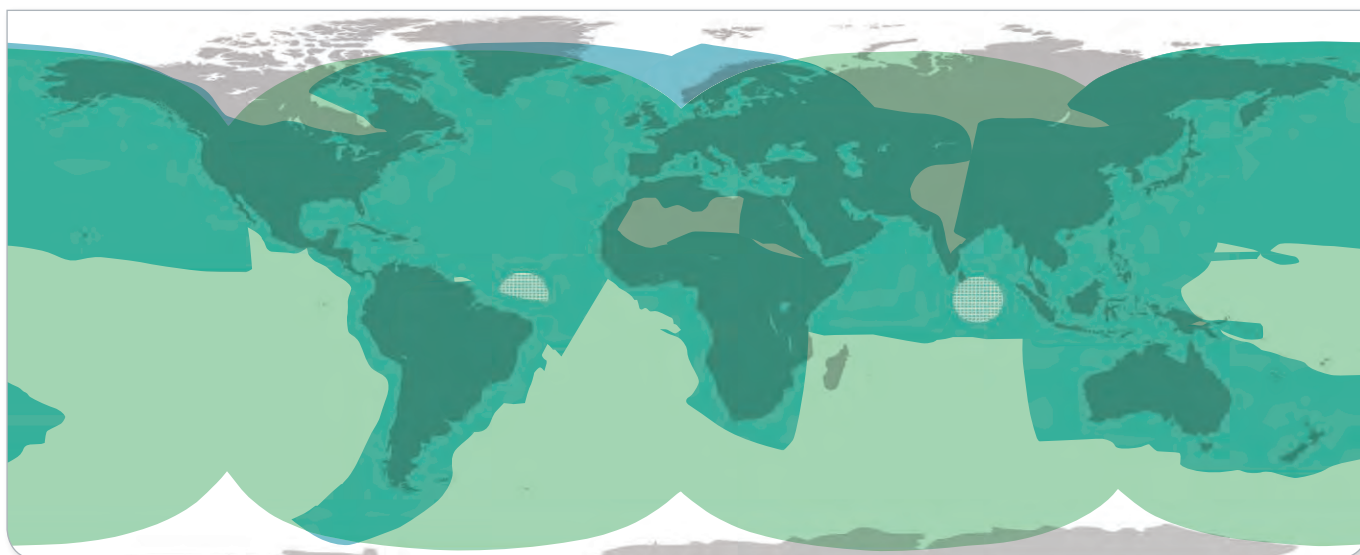


The TracPhone V-series offers an antenna and coverage area for every need, from small boats to megayachts

In addition to the ultra-compact TracPhone V3, KVH's other mini-VSAT products, TracPhone V7 and TracPhone V11, perfectly serve a full range of needs. The rugged, award-winning, 60 cm (24") TracPhone V7 reliably delivers top data speeds, and is the choice of the U.S. Coast Guard. The mighty TracPhone V11 is the world's first dual-mode, C/Ku-band antenna, a truly global system that seamlessly switches between C- and Ku-band satellites automatically; ideal for yachts that cruise the world.

Coverage Map

Fourteen Ku-band transponders with an overlay of C-band coverage have created the world's most robust VSAT network. The TracPhone V3 provides virtually seamless roaming throughout the Ku-band region.



 **Ku-band Coverage** (TracPhone V3,* V7,* V7-IP, V11)

 **C-band Coverage Only** (TracPhone V11)

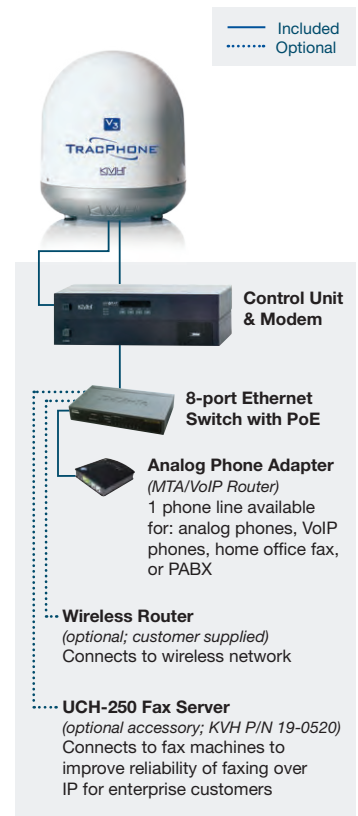
* The TracPhone V7 and V3 are 2-axis, stabilized antennas that do not provide coverage when directly at the equator, as shown in the hatched areas above. This map depicts KVH's expectations for mini-VSAT Broadband's coverage; actual coverage and availability may vary.

Technical Specifications

Abovedecks Equipment (Antenna Unit)	
Antenna Operating Temperature	Operational: -25°C to 55°C (-13°F to 131°F)
Antenna Storage Temperature	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 ACU
Antenna Control Unit to Antenna Unit Communications	14 Conductor Data Cable
L-band RF Cables <i>(customer supplied)</i>	Choose RG-11 for 5-15 m (16-49'), LMR-400-75 for 16-30 m (50-99'), or LMR-600-75 for 31-45 m (100-150')
Belowdecks Equipment (Antenna Control Unit (ACU) and Modem)	
Dimensions <i>(ACU & Modem)</i>	3U, 48 cm (18.9") rack-mountable with optional mounting provisions
Weight <i>(ACU & Modem)</i>	8.2 kg (18 lbs)
Operating Temperature	Operational: -15° C to 55° C (5° F to 131° F)
Storage Temperature	Survival: -15° C to 70° C (5° F to 158° F)
Input Power	Modem: 100-240 VAC, single phase power only, 50-60 Hz auto switching, 3 A max Antenna Control Unit: 100-240 VAC, single phase power only, 50-60 Hz, 2 A max
Data Interfaces	Ethernet: IEEE 802.3 10BASE-T/100BASE-TX, 100 Mbit/s
Voice Interfaces	1 RJ11 port for VoIP services provided via separate VoIP device
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	Comprehensive 2-year parts, 1-year labor warranty supported by KVH's worldwide Certified Support Network (CSN). Subject to in-country regulations.
MSRP (USD) <i>(KVH Part Number)</i>	\$16,995 (01-0335-01) rack-mountable ACU and modem \$17,995 (01-0335-02) case-mounted ACU and modem

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

V3 System Diagram



The TracPhone V-series – a solution for every need

	TracPhone V3	TracPhone V7	TracPhone V11
Antenna Dish Diameter	36.8 cm (14.5")	60 cm (24")	1.1 m (42.5")
Antenna Unit Diameter x Height	39.4 cm x 44.7 cm (15.5" x 17.6")	66.3 cm x 69.6 cm (26.1" x 27.4")	1.2 m x 1.4 m (48.8" x 57.3")
Antenna Unit Weight <i>(Dish + Radome)</i>	11.3 kg (25 lbs)	27 kg (60 lbs)	109 kg (240 lbs)
Antenna Type	Ku-band	Ku-band	Dual-mode C/Ku-band
Elevation/Azimuth Range	7.5° to 75° / 720° rotation	5° to 80° / 720° rotation	-24° to 119° / 720° rotation
Maximum Download Speed ¹	2 Mbps	2 Mbps	4 Mbps
Maximum Upload Speed ¹	128 Kbps	1 Mbps	1 Mbps
Coverage	Seamless worldwide regions	Seamless worldwide regions	Global except Arctic Regions
Airtime Rate Plans	Metered plans starting at \$0.99/MB	Metered plans starting at \$0.99/MB and fixed speed-based plans	Fixed speed-based plans

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



Solid Warranty & Technical Support



Wherever you travel, you can count on receiving outstanding support and service through KVH's certified quality, product, and customer support programs.

This support includes KVH's 24/7 online web support system; a responsive 24/7 international KVH support team; authorized dealers around the globe; the exclusive KVH Certified Support Network (CSN), and KVH's 2-year parts/1-year limited onboard labor warranty.¹

KVH - Leader in Mobile Broadband



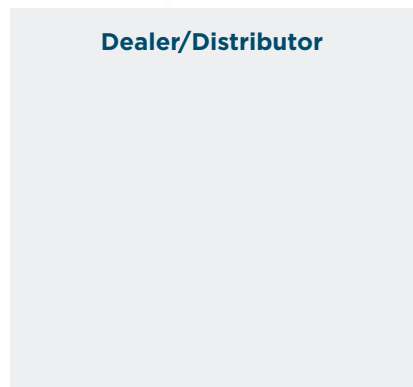
KVH is the world's leading provider of mobile satellite communications and television systems. Serving the marine industry since 1982, KVH's fully stabilized antennas offer unmatched performance during all sea and weather conditions.

KVH antenna systems undergo stringent quality checks, including accelerated life cycle testing, military specification environmental tests, shock and vibration testing to Inmarsat specifications, and in-depth functional evaluations.

The KVH mini-VSAT Broadband network was recognized as the #1 maritime VSAT service in the world, based on number of users, by two well-respected global research firms, Euroconsult and NSR.

The results speak for themselves. With more than 150,000 mobile satellite antennas fielded worldwide, KVH has supplied more in-motion satellite telecommunications and TV systems for mobile applications than any other manufacturer. Thousands of customers access the Internet every day on the mini-VSAT Broadband network. When you choose KVH, you choose the best!

¹ Unless subject to in-country regulations.



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