

TracPhone® V3IP/Iridium Pilot® System Bundle



A great solution for economical, global SATCOM



Key Features and Attributes

- TracPhone V3IP – world’s smallest maritime VSAT system
- Integrated CommBox™ Modem (ICM) – breakthrough belowdecks unit for TracPhone V3IP
- TracPhone V3IP data speeds – up to 2 Mbps down, 128 Kbps up using mini-VSAT BroadbandSM service – No. 1 in maritime VSAT
- Iridium Pilot – compact, fully global system with pole-to-pole coverage
- Iridium Pilot data speeds – up to 134 Kbps down and up using Iridium OpenPort® broadband service

System Bundle includes both TracPhone V3IP and Iridium Pilot antenna systems preconfigured with least cost routing

Two Lease/Airtime* Options:

- 1) 1 GB data/month – \$1,495/month
\$1.49/MB overage
\$0.49/min. phone calls worldwide
- 2) 250 MB data/month – \$995/month
\$1.99/MB overage
\$0.49/min. phone calls worldwide

* 36-month lease and airtime contract. Data is for both services combined.
Hardware bundle also available for purchase; see Purchase Options on back for details.

Ultra-compact, fast, reliable TracPhone V3IP paired with Iridium Pilot for pole-to-pole global service

At 39 cm (15.5") in diameter, TracPhone V3IP is the world’s smallest maritime VSAT antenna. Advanced ArcLight® spread spectrum technology enables the V3IP’s extremely compact design, while still providing outstanding coverage and speed with reliable Internet, voice, and e-mail communications. TracPhone V3IP is designed exclusively for the mini-VSAT Broadband service – ranked No. 1 in maritime VSAT. Now, with KVH’s new System Bundle, TracPhone V3IP is paired with an Iridium Pilot for pole-to-pole coverage.

New Integrated CommBox Modem (ICM) – the key to seamless integration

Designed for the broadband era and its requirements for onboard networking, the TracPhone V3IP features KVH’s Integrated CommBox Modem (ICM) – an all-in-one streamlined belowdecks unit combining an IP-enabled antenna control unit, CommBox Network Manager, an ArcLight spread spectrum modem, Voice over IP (VoIP), Ethernet switch, and Wi-Fi capabilities. At just 2U, the ICM ensures fast and easy installations and the most reliable performance.

Preconfiguration ensures easy and seamless switching

With the TracPhone V3IP/Iridium Pilot System Bundle, the ICM is preconfigured by KVH to ensure seamless integration, so your vessel will have satellite Internet, e-mail, and phone access wherever you go. TracPhone V3IP and mini-VSAT Broadband service is always chosen first, however, if the service becomes unavailable for any reason, onboard LAN and Wi-Fi networks will switch to Iridium OpenPort broadband service, and will automatically switch back to mini-VSAT Broadband airtime service as soon as it becomes available again. Both the mini-VSAT Broadband and Iridium OpenPort airtime services are billed through KVH for the customer’s convenience.

Built-in tool for managing onboard broadband data use addresses a key concern for commercial operations



Vessels as small as 30 feet can operate more efficiently with TracPhone V3IP’s fast, reliable broadband connectivity. Operational benefits include a user-friendly interface that enables remote diagnostics and monitoring, over-the-air software updates, and ease in creating unique networks for crew access to e-mail and Internet. With the CommBox Network Manager built into TracPhone V3IP’s streamlined ICM, ship operators have a tool at hand for managing the increasing use of broadband onboard, by simply activating the CommBox software, which includes

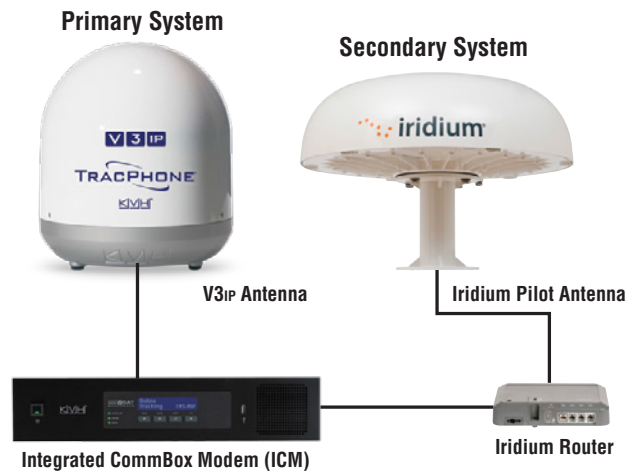
bandwidth management, web caching, compression, content filtering, and much more.

TracPhone V3iP/Iridium Pilot System Bundle Specifications

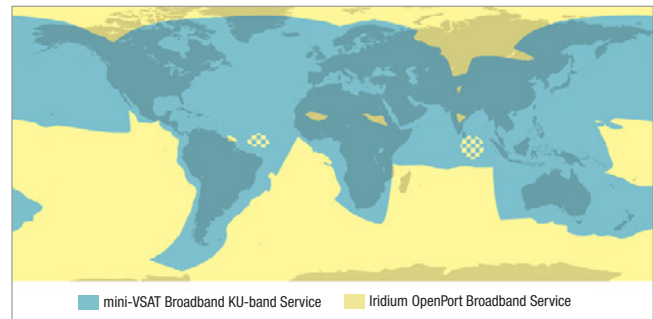
Service (Primary – TracPhone V3iP)	
Network	mini-VSAT Broadband
Antenna Type	Ku-band
Service Coverage Area	Seamless Worldwide Regions (keyholes at equator)
Max. Speed Download/Upload ¹	2 Mbps/128 Kbps
Service (Secondary – Iridium Pilot)	
Network	Iridium OpenPort broadband
Antenna Type	L-band
Service Coverage Area	Global, pole-to-pole
Max. Speed Download/Upload ¹	134 Kbps bidirectional
Above-decks Equipment (Primary – TracPhone V3iP)	
Antenna Dish Diameter	36.8 cm (14.5")
Antenna Unit Dimensions	39.4 cm (D) x 44.7 cm (h) (15.5" (D) x 17.6" (h))
Weight	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 Comms	14 Conductor Data Cable
L-band RF Cables (customer supplied)	For 5-15 m (16-49 ft.) choose RG-11 For >16-30 m (50-98 ft.) choose LMR-400-75 For >31-45 m (99-148 ft.) choose LMR-600-75
Above-decks Equipment (Secondary – Iridium Pilot)	
Antenna Unit Dimensions	57 cm (D) x 23 cm (h) (22.4" (D) x 9" (h))
Weight	11 kg (24.3 lbs)
Below-decks Equipment (V3iP Integrated CommBox Modem (ICM))	
Dimensions	42.6 cm (l) x 41.4 cm (w) x 2U (h) (16.8" (l) x 16.3" (w) x 2U (h)); 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 service
Below-decks Equipment (Iridium Router)	
Dimensions	25 cm (l) x 19 cm (w) x 5.5 cm (h) 9.8" (l) x 7.5" (w) x 2.2" (h)
Weight	1.4 kg (3.0 lbs)
Complete System	
Certification (TracPhone V3iP)	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 ³	2-year parts, 2-year labor (TracPhone V3iP) 5-year on equipment (Iridium Pilot)
KVH OneCare™ Support Program	Available; see kvh.com/onecare for details
Part No.	01-0357-01

¹Meets FCC and CE requirements. Exceeds Inmarsat operational, survival, and shock specifications.
²Published data speeds are maximum speeds and may vary in different regions and under different conditions.

System Diagram



mini-VSAT Broadband Ku-band Coverage* & Iridium OpenPort L-band Coverage



* The TracPhone V3iP is a 2-axis, stabilized antenna that does not provide coverage in areas where the satellite is directly overhead as shown in the hatched areas above. The map depicts KVH's expectations for coverage; actual coverage and availability may vary. Data rates may also vary in different regions. Go to www.kvh.com/minisatmap to view our coverage map and for complete details. KVH provides no guarantees of satellite coverage or availability.

Purchase Options – TracPhone V3iP/Iridium Pilot System Bundle

Systems & Airtime Service Lease Bundles
Includes both TracPhone V3iP and Iridium Pilot antenna systems plus desired data package/month (mini-VSAT Broadband and Iridium OpenPort combined), \$0.49/minute phone calls worldwide (both services), and ICM preconfigured for least cost routing. (Requires 36-month lease & airtime contract.)

250 MB/Month Package	\$995/month; \$1.99 MB overage
1000 MB/Month Package	\$1,495/month; \$1.49 MB overage

System Hardware Only
Includes both TracPhone V3iP and Iridium Pilot antenna systems and ICM preconfigured for least cost routing. See mini-VSAT activation order for airtime rate plans.

MSRP	\$22,495
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²Optional Belowdecks Mounting Case (72-0368) available for vessels without a rack.

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

Dealer/Distributor www.mackaymarine.com www.mackaysatellite.com	Where to buy: Mackay Communications Mackay Satellite 919-850-3100 satserv@mackaycomm.com	Mackay Marine 281-479-1515 marinesales@mackaycomm.com Mackay Govt. Group 904-880-4633 government@mackaycomm.com
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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
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Patents Pending
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All other trademarks are the property of their respective companies

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