

WaveCall™

THE WAVECALL 4003

MARITIME SATELLITE VOICE & DATA SERVICES



4003

Broadband-at-Sea

*Ku-Band Maritime
VSAT TX/RX Antenna*

- Always-on Internet
- Pays for itself within a Gigabyte

Sea Tel®

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WaveCall™

THE WAVECALL 4003

The superlative broadband antenna solution for your home or office at sea.

The WaveCall 4003 Broadband Maritime Communications System (BMCS) provides business-class connectivity for your at-sea communications requirements. Always-on Internet connectivity at high inbound and outbound speeds. Enough telephone lines to support individual stateroom, cabin, and office use. Typically Internet speeds vary, however the WaveCall Broadband-at-Sea service provides connectivity at 512 kbps inbound (satellite-to-ship) and 128 kbps outbound (ship-to-satellite) speeds. And if this isn't enough bandwidth, this can be upgraded to 1.5 mbps inbound and 256 kbps outbound. Only Sea Tel offers you this level of performance in such a compact size and price range.

Other systems say they provide global coverage but often at relatively low data speeds or fast inbound speeds but over limited geographical areas. Only the WaveCall 4003 BMCS provides high speed services in the Caribbean, Latin America, continental United States, and continental Europe and the Mediterranean. Service growth is anticipated to include the Far East. At just one meter, the WaveCall 4003 is the same size as an Inmarsat-B terminal and also the Sea Tel Model 4094 DBS TV-at-Sea system for those who want the aesthetics of a matched dual-dome silhouette.

The broadband services offered with the 4003 BMCS are supplied by WaveCall Communications Inc., a subsidiary of Sea Tel. The service contract is sold with the antenna and includes a 1 Gb data transfer allowance (this equates to approximately 50 to 100 hours of Internet surfing) per month. A service fee (calculated on a per Mb basis) for data transfers over 1 Gb, plus a low per minute rate for voice service applies.

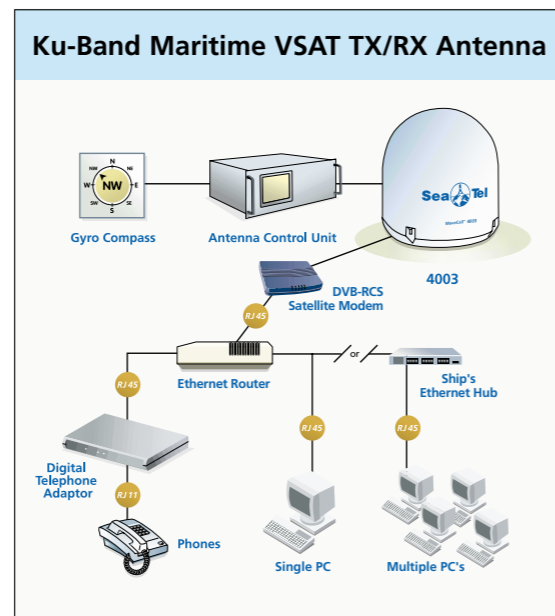
Sea Tel manufactures Very Small Aperture Terminal antennas (VSATs) that are designed specifically for marine use. These units are stabilized to withstand tough marine conditions and the ship's motion and turning.

The 4003 antenna from Sea Tel allows users to have unrivaled, cost-effective, high-functioning, and flexible, large-scale two-way broadband multimedia network systems – at sea.

Applications

- The Yachtsman – For the ocean-going vessel that requires always on, the fastest connections available at sea – virtually the state-of-the-art in maritime electronics, one can not beat the 4003. The owner/family/staff can communicate, transfer data, or surf the web at will. Needless to say, safety is an added benefit.
- Private Corporate Networks – may deploy a wide variety of applications such as intranets and LAN extensions. Businesses will be able to transfer files and images, video conference, digital video broadcast, e-mail, backup databases, VoIP, VPN, and more.

Many new applications and opportunities arise every day in regions without wired or cellular or nonexistent copper and fiber infrastructure. At sea, where the need is obvious, Sea Tel is the Broadband Maritime Communications Systems equipment of choice for this growing requirement.



4003 Equipment Cost and Specification Comparison

	Sea Tel Model 4003	WaveCall MCM 3	KVH F77	Inmarsat B
Coverage	The Americas and Europe Asia²	North America, Caribbean, plus	Worldwide	Worldwide
Voice	Yes, \$0.75/minute	Yes, \$.49 to .99/min	Yes, \$2.75/min	Yes, \$2.95/min
Data Speed Inbound	Up to 1.5 mbps inbound (512 kbps standard)	Up to 144 kbps ¹	MPDS 64 kbps ISDN	64 kbps ISDN
Data Speed Outbound	Up to 256 kbps outbound (128 kbps standard)	Up to 144 kbps ¹	MPDS 64 kbps ISDN ³	64 kbps ISDN
Equipment Costs	\$36,995	\$9,995	\$23,995	\$25,000

Airtime Cost Comparison

	Sea Tel Model 4003	WaveCall MCM 3	KVH F77 ³	Inmarsat B ⁵
Download Speeds	512 kbps	Up to 144 kbps ¹	64 kbps	64 kbps
1 MB file download (8 million bits)	15.6 seconds	114 seconds ¹	124 seconds	124 seconds
Cost per MB	\$1	\$2.08-\$5.19 ⁴	\$16.53 ISDN \$36.00 MPDS	\$18.60 \$9.00/minute
1 GB file download	256 minutes	1,893 minutes	2,080 minutes	2,080 minutes
Cost/GB	\$1,250⁴	\$2,082 to \$5,205 ⁴	\$16,640 ISDN \$36,000 MPDS	\$18,720

All prices subject to change without notice.

1. May vary according to file type, 2. planned for 2003, 3. Source: KVH website, 4. depending on service plan, 5. Source: Delta Communications website

“The equipment that pays for itself within a Gigabyte”





4003 System Specifications

High speed/low cost TX/RX in a 1 meter dish

Three-axis servo controlled stabilization systems minimize signal drop out for extremely reliable state-of-the-art communications, even in storm conditions

Excellent choice for yachting and commercial ocean-going vessel applications for voice and data or business applications of Internet, VoIP, Corporate Intra and Extranets. Weather, emergency services, friends, family – contact with virtually anyone in the world who is reachable via a phone or a computer

Digital, always online

Efficient use of space, time and cost (small footprint, high speed, cost efficient)

Coverage from Northern Europe through the Mediterranean and North to South America

Above Decks Equipment

- Three axis stabilized antenna platform
- Unlimited azimuth capability
- 1 Meter “backfire” or ring-focus Ku-band antenna
- Automatic polarization control
- 48” Radome

Below Decks Equipment

- Antenna Control Unit using ship’s gyro interface
- Serial I/O for remote antenna control using RAM software
- DVB-RCS Satellite modems
- Ethernet Router

Other

- Easy stand-alone or network compatible installation
- Simple interconnection between ADE and BDE
- Connections to the customer’s network or computer system will be through an RJ45 ethernet connection which plugs into an ethernet hub or switch
- Billing through WaveCall Communications, Inc. a subsidiary of Sea Tel, Inc.

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