



## Vobal S3 GSM Base Station

**Vobal Technologies provides a unique GSM 2G service for shipping companies with Internet access on their fleet.**

### Base Station Server Overview

Out at sea for months at a time, a vessel's crew wants to communicate with their loved ones back home. But satellite phones and call time are expensive for them, and PC-based voice communications are prohibitively expensive for the vessel.

Leveraging over a decade of Voice over IP (VoIP) telecommunications experience worldwide, Vobal Technologies has a solution: the Vobal S3 GSM System. It allows the crew to **place** and **receive** phone **calls** and **SMS** messages while at sea, and, since they use their existing personal 2G or 3G mobile phones, they can make the calls in privacy. Each crew member simply signs up for a pre-paid rechargeable account and maintains his own minutes and usage. Utilizing state of the art VoIP technology, the Vobal S3 base station server allows the crew to do this much less expensively than satellite calls or even GSM international roaming charges for other maritime solutions aimed at the leisure industry.

That's because the Vobal S3 solution was designed specifically for the **commercial** maritime industry, with that industry's particular needs in mind. With zero local configuration of the hardware required, a universal power supply, and Ethernet connections, once a few firewall settings on the vessel's satellite IP system are adjusted, the Vobal S3 is "plug and play".

## Server Overview Cont'd...

The VoIP technology allows Vobal Technologies to utilize very small amounts of bandwidth, while still maintaining superior call quality even through the challenge of satellite connections. We do not interrupt the normal flow of data to and from the ship, and still allow for 100% of the usage of all other critical ship's systems. Best of all, our **flexible end-user pricing** allows the shipping company to determine how much of the bandwidth used by the phone calls will be borne by the ship, and how much by the users.

In addition, calls and SMS messages sent between crew members while on board are **unlimited**, and use no satellite bandwidth, allowing the crew to easily and instantly communicate with each other for important ship business. We can even incorporate the vessel's on-board **PBX**, providing extensions for mobile phones and analog wall phones alike.

### Technical Specifications

**Compatibility:**

- "Always-on" satellite connections (e.g., VSAT and Inmarsat FleetBroadband)
- 900 MHz GSM 2G compatible handsets

**Number of calls:**

- Up to 7 simultaneous calls

**Range:**

- Crew area (~75m or 5 levels)
- Optional 15m antenna extension cables available

**Bandwidth consumption:**

- Less than 5MB/month idle bandwidth
- Less than 8kbps for calls (total voice+overhead)

**Power:**

- 110-240V, 50/60Hz

**Temperature/Humidity:**

- 3C to 45C
- 0% to 90% non-condensing

**Size:**

- Base station: 35cm X 32cm X 15cm
- Ethernet/PBX interface: 10cm X 10cm X 3cm
- 2 Wall-mounted magnetic antennas: 33cm and 50cm

**Interface:**

- Ethernet

## Contact Information

For further questions, please email [info@Vobal.com](mailto:info@Vobal.com) or call the number listed below.

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