

# Stay Connected with SEAGULL 5000



Seagull 5000 is a voice and data satellite terminal with a built-in GPS tracking system specially designed for reliable performance in the harsh and wet maritime or land environment. This affordable, easy-to-install and user-friendly terminal enables users to make satellite voice calls to normal PSTN phones, mobile phones and other satellite phones through the Thuraya satellite network.

Besides supporting SMS services through its easy-to-use menu on the large colour LCD screen on the handset, Seagull 5000 provides full-duplex, IP-based data communications capabilities through the Thuraya GmPRS technology. These data communication capabilities, coupled with an onboard GPS receiver enables Seagull 5000 to transmit such information as ship's identity and ship's position with date and time stamp necessary for long range identification and tracking services that is increasingly being made mandatory by many national maritime and fisheries authorities. The user can also take advantage of this internet data connection to check emails, weather reports or just simply for web-browsing.

Tracking and monitoring functions are user-configurable for fixed time interval or event-triggered operation. They can also be remotely activated by a monitoring centre. An Alert button is available to notify pre-configured contacts during an emergency. When the Alert button is activated, Seagull 5000 shall immediately send a pre-determined SOS message which includes the time-stamped GPS coordinates of the position to a maximum of three preset contacts for emergency response.

Seagull 5000 is truly a robust, versatile and cost effective solution for medium-size to small fishing vessels, pleasure boats, patrol boats and any other sea vessels or land vehicles that need a combination of voice telephony, data and tracking functions.

## Applications

- Supports Communication needs of fishing vessels, leisure boats, coastal guard boats, land vehicles, etc.
- Coastal surveillance
- In-land rural area communications
- Fleet management
- Low data rate telemetry and tracking

## Features and Functions

### Handset

- Supports basic telephony functions, Calling Line Identification Presentation (CLIP) and Short Message Services(SMS)
- Phone book
- Call log: last 5 missed, received and dialed calls each with date and time stamps
- Menu-driven graphical user interface with 65K color, 220 x 176 pixel, 2" TFT LCD screen
- MMI in English
- Back-lit keypad
- 2.5mm Headset Jack
- Hands-free Headset
- Wall mount cradle for the handset

- Internet Access
- GPS data output in NMEA-0183 format through RS-232
- (Interface cable is optional)
- Save position logs in device memory for later retrieval
- Over the air update of system configuration parameters

### Antenna

#### Passive Antenna

- Omni-directional passive Thuraya satellite antenna with built-in active GPS antenna
- Up to 5 metres of LMR400 (or equivalent) co-axial satellite antenna cable

#### Active Antenna

- Omni-directional active Thuraya satellite antenna with built-in active GPS antenna
- Up to 40 metres of LMR400 (or equivalent) co-axial satellite antenna cable

**Note: Active antenna must be used with an external power supply unit.**

### Base Terminal

- One Alert button for sending an emergency alert to pre-configured contacts via SMS or GmPRS
- External Alert button input port (external Alert button is optional)
- Ringer output port (external ringer is optional)
- Configurable to support
  - Automatic Position Reports (APR)
  - Polling for an on demand position report
  - Geo-fencing. Up to 10 polygon areas can be configured. Sends an alert when the vessel enters or leaves an area

## General specifications

Packet data:  
Down stream: up to 60kbps  
Up stream: up to 15 kbps

### Size

Handset [L x W x H]: 142mm x 56mm x 22mm  
Handset Cradle [L x W x H]: 147mm x 65mm x 32mm  
Base Terminal [L x W x H]: 254mm x 155mm x 55mm  
Passive Antenna: 95mm (Dia.) x 150mm (H)  
Active Antenna: 210mm (Dia.) x 180mm (H)

### Weight

Handset 390g  
Handset Cradle 55g  
Base Terminal 1kg  
Passive Antenna 300g  
Active Antenna 1.7kg

Power Supply: 10.8 – 31.2 VDC  
Power Consumption (max): 10 W  
Operating humidity: up to 95% (non-condensing) at 40 °C  
Operating Temperature:  
Handset: -20°C ~ +55°C  
Base Terminal: -10°C ~ +55°C  
Antenna: -25°C ~ +55°C  
Storage Temperature:  
Handset: -30°C ~ +70°C  
Base Terminal: -20°C ~ +70°C  
Antenna: -40°C ~ +80°C

Ingress Protection Rating: Handset: IP66  
Antenna: IP66

### GPS Specifications

Number of tracking channels 20 (SiRF Star-III)  
Position accuracy: <10m 95%  
Time to First Fix:  
Hot start <1 second  
Warm start <30 seconds  
Cold start <35 seconds

### Interfaces

- Satellite antenna connector (N-Type female)
- GPS antenna connector (TNC female)
- Primary handset connector
- SIM card connector
- Ethernet port (RJ45)
- USB client port (mini-USB connector)
- RS232 port for GPS signal output
- DC Power supply input socket
- Power On/Off switch
- Four dual color LED indicators
- External Ringer output port
- External Alert button input port

### Optional Features and Accessories

- BDU-to-SIM lock
- External Ringer (Buzzer)
- External ringing indicator light
- External Alert button
- Handset extension cable
- GPS Cable
- Handset Cradle mounting plate



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