



Stay Connected  
with

**SEAGULL 5000z**

Fax via satellite with  
FaxConnect<sup>TM</sup>



The Seagull 5000z is a voice, data and fax satellite terminal with a built-in GPS tracking system specially designed for reliable performance in the harsh maritime and 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, the Seagull 5000z provides full-duplex, IP-based data communications capabilities through the Thuraya GmPRS technology. These data communication capabilities, coupled with an onboard GPS receiver enables the Seagull 5000z to transmit such information as ship's identity and ship's position with date and time stamp necessary for Long Range Identification and Tracking (LRIT) 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. When the optional FaxConnect<sup>TM</sup> interface box is connected to the Seagull 5000z, the user can also send G3 faxes to other G3 fax machines on a global basis.

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, the Seagull 5000z 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.

The Seagull 5000z 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, fax 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 colors, 220 x 176 pixels, 2" TFT LCD screen
- MMI in English and Chinese
- Back-lit keypad
- 2.5mm Headset Jack
- Handsfree headset
- Wallmount cradle

### Base Terminal

- One Alert button for triggering 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
  - o Automatic Position Reports (APR)
  - o Polling for an on demand position report

- o Geo-fencing. Up to 10 polygon areas can be configured. Sends an alert when the vessel enters or leaves an area
- Support G3 Fax via FaxConnect™
- Internet Access
- 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.

## General specifications

Thuraya Approved  
Compliant to CE

### Services

Voice	
Standard IP:	up to 60/15 kbps
SMS:	up to 160 characters
Fax:	up to 9.6 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	290g
Handset Cradle	55g
Base Terminal	1kg
Passive Antenna	300g
Active Antenna	1.7kg

### Power Supply and Consumption

DC input range (isolated):	10.8 – 31.2 VDC
Power (max):	10 W

### Environmental Conditions

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)
- FaxConnect™ interface port
- 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
- Handset Cradle mounting plate



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