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# Oceana 800



# Oceana 800



- Use standard telephone handsets
- Speakerphone/Handsfree
- Active Privacy Handset
- Tracking and Instant Messaging
- SMS / Voice / Data Services
- “505” Emergency Calling

The Beam Oceana 800 is designed to operate with the Inmarsat GSPS, IsatPhone Link and FleetPhone SIM's to provide reliable voice, data and SMS communication services to anyone in a remote location on land or sea or for emergency backup communications. For a maritime installation the 505 Emergency Calling facility from the OC800 puts vessels directly in contact with a maritime rescue co-ordination centre (MRCC) free of charge.

A Beam active Mast Mount Antenna (ISD710) is supplied with the Oceana 800 to provide a complete integrated solution that is ready for use anytime, anywhere. Whilst the terminal was purposely designed for maritime applications to meet an IP54 ingress rating making the terminal suitable for on-board vessel communications the terminal can easily be used in any land based fixed site application.

The terminal has a dedicated full color display, inbuilt phone book and SMS inbox, the integrated privacy handset or the inbuilt speaker phone enables the user to have private or hands-free calling. The terminal is designed to be wall or desk mounted and the terminal is provided with a spring loaded hang-up cup for the privacy handset when the unit is wall mounted.

Featuring an intelligent RJ11/POTS interface, it enables connection of up to 5 standard corded/cordless phones or integration to a PABX system. It can support cable runs of up to 600m (2000ft) and incorporates in-built intelligence to support standard ring, busy and dial tones.

The Oceana 800 has an integrated GPS engine providing intelligent tracking and instant message reporting via SMS. The Tracking and Instant Message functionality can be configured to support automated periodic polling or instant message reporting with a single button press. Oceana 800 has an integrated Bluetooth for voice communications, intuitive color LCD display that provides easy and convenient access to send and receive SMS or to retrieve phone numbers stored in the terminal. Also included is a secondary SIM socket to override internal SIM, in-built handsfree speakerphone, USB data, desk or wall mountable.



Cargo Vessels



In-Building –  
PABX Integration



Luxury Yachts



Mining Sites

## DESIGN

- High quality IP54 rated maritime enclosure
- Colour LCD screen
- Compact all-in-one design
- Wall or desk mounting options
- Lock bolt for securing to wall
- Accessible control buttons
- Integrated antenna connections
- In-built slimline active privacy handset
- In-built speakerphone
- Cable routing LHS/TOP/BOTTOM
- Dual SIM card enclosures

## POWER

- 10-32V DC Input
- 110/240V AC plug pack, (included)

## INTELLIGENT POTS/RJ11 INTERFACE

- Supports up to 600m (2000 feet) of RJ11 cable runs
- Standard dial, ring & busy tones
- Integrates to PABX system
- Support standard corded, cordless and DECT phones
- Auto-dial & speed dials available

## VOICE CALLING FEATURES

- RJ11/POTS interface
- In-built phonebook/contacts
- Privacy handset calling
- In-built handsfree speakerphone
- Access from PABX or other corded/cordless handsets
- Bluetooth headsets (not included)

## INSTANT MESSAGE AND TRACKING FEATURES

- Dedicated internal GPS receiver

### Tracking:

- Periodic location messages
- SMS, SMS to email
- Location message sent upon button press
- Ignition ON/OFF reporting
- Remote location polling via SMS

### Instant Message Mode

- Single button press on terminal
- Instant GPS location messages
- Supports external "man down" pendant or button
- Remote clearing of alert via SMS

### Tracking/Instant Message content includes

- Message ID#
- Header
- Latitude/Longitude
- Speed
- Direction

## OTHER KEY FEATURES

- Includes BEAM Maritime Antenna (Active)
- Adjustable Brightness
- Accepts Inmarsat GSPS, IsatPhone Link and FleetPhone SIM cards



Tracking



Data



POTS/RJ11



USB



Privacy Handset



Handsfree



Instant Messaging



SIM (Rear)



2nd SIM



LCD Display



SMS



Phonebook



Bluetooth

AVERAGE POWER CONSUMPTION (Active Antenna Connected)	CURRENT @ 15V AVERAGE	POWER
Standby	0.22 A	3.2 W
Transmit (RJ11/POTS)	0.58 A	8.7 W
Transmit (Speakerphone)	0.53 A	7.9 W
Sleep Mode	5mA	75mW
Peak Current	1.7 A	26 W

PHYSICAL SPECIFICATIONS		
Dimensions	241 x 185 x 93 (mm)	9.49 x 7.28 x 3.66 (inches)
Weight OC800 Only	1.27kg	2.80lb

ENVIRONMENTAL SPECIFICATIONS		
Operation	-20°C to +55°C	-4°F to +131°F
Storage	-30°C to +80°C	-22°F to +176°F
Humidity		95%

TRANSCEIVER	
Inmarsat-4 Satellite GMR - 2+ Frequency Bands	
Tx Operating Frequency	1626.5 - 1660.5 MHz
Rx Operating Frequency	1518 - 1565 MHz (Inmarsat) 1565.19 - 1585.65 MHz (GPS)
RF Output Impedance	50 Ohms
Carrier Frequencies	Channel 0 = 1626.525 MHz Channel 169 = 1660.475 MHz
TX Modulation	GMSK
RX Modulation	OQPSK

GPS MODULE (internal)	
Channels	14 tracking, 51 channel acquiring
Update Rate	1Hz
Accuracy	Position 2.5m CEP, Velocity 0.1m/s, Timing 300ns
Acquisition TTFF	Cold 29sec, Hot 1sec
Sensitivity	-161 dBm
Operational Limits	Altitude 18000m, Velocity 515m/s
Dynamics	4G

INSTANT MESSAGE	
Instant Message	In-built - single key press
1 x alarm loop	Bare wire - "Normally closed" loop IN to OUT
Track	In-built - single key press

CONNECTORS / INTERFACES	
POTS/RJ11	RJ11/2-wire, 5REN @ 600m, Adjustable dial, ring, busy tone configured frequency and adaptive impedance.
Inmarsat Antenna	TNC-Female
GPS Antenna	SMA-Female
10-32V DC	4-way microFit (AC/DC adaptor, or DC lead)
Privacy Handset Port	RJ9 connector
Configuration/Data	USB Mini B
Speakerphone	In-built speaker/microphone

CERTIFICATIONS	
Inmarsat Type Approval, FCC, CE Compliance, Electrical Safety, RoHS, Industry Canada, C-Tick	
IP54 Rating 5 = Protected against dust limited ingress (no harmful deposits). 4 = Protection against water sprayed from all directions - limited ingress permitted.	

KIT CONTENTS	
Oceana 800 Terminal	
ISD710 Maritime Antenna (Active)	
1 x spring cup (attached to terminal) 1 x springless cup	
Privacy Handset	
110 - 240V AC Plug Pack, 15V DC Out	
10 - 32V DC Power Cable	
USB Cable	
2m Alert wiring loop	
Wall mounting plate	
User Manual, Quick Start Guide & Antenna Installation Guide	

OPTIONAL ACCESSORIES	
ISD932	IsatDock/Oceana 6m SMA/TNC cable kit (Active)
ISD933	IsatDock/Oceana 13m SMA/TNC cable kit (Active)
ISD934	IsatDock/Oceana 18m SMA/TNC cable kit (Active)
ISD935	IsatDock/Oceana 31m SMA/TNC cable kit (Active)
ISD938	IsatDock/Oceana 40m SMA/TNC cable kit (Active)
ISD942	IsatDock/Oceana 50m SMA/TNC cable kit (Active)
ISD943	IsatDock/Oceana 60m SMA/TNC cable kit (Active)
ISD944	IsatDock/Oceana 70m SMA/TNC cable kit (Active)
ISD945	IsatDock/Oceana 80m SMA/TNC cable kit (Active)
ISD946	IsatDock/Oceana 90m SMA/TNC cable kit (Active)
ISD947	IsatDock/Oceana 100m SMA/TNC Cable Kit (Active)
RST055A	UPS Battery Pack



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