Oceana 800
Beam Communications

AST australia
global satellite communications

The purpose and goal of AST Australia is to provide a professional service in the field of mobile satellite services. From deciding upon the most appropriate system at commencement, to airtime, service and support, we consider key aspects such as overall lifetime cost and ease of use when satisfying our clients. We are an independent provider that can tailor a package to your precise needs.

Oceana 800 is an all-in-one IP54 maritime communications terminal specifically designed to be utilized in a wide variety of marine applications throughout the world.

Featuring an intelligent RJ11/POTS interface enabling connection of up to 5 standard corded/cordless phones or integration to a PABX system, supporting cable runs of up to 600m (2000') and 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.

Other key features include, a secondary SIM socket to override internal SIM, an active privacy handset, in-built handsfree speakerphone, USB data, desk or wall mountable. The Oceana 800 is designed to operate with the Inmarsat "FleetPhone" service and is supplied with a dedicated active marine grade antenna system to provide a completely integrated solution that is ready for use anytime.

KEY FEATURES

DESIGN
- High quality IP54 rated maritime enclosure
- Marine grade base mount antenna
- Colour LCD screen
- Compact all-in-one design
- Wall or desk mounting options
- Locking bolt to wall mounting
- Accessible control buttons
- Integrated antenna connections
- Slimline 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
- Support up to 600m (2000') of RJ11 cable runs
- Standard dial, ring & busy tones
- Integrates easily to PABX system
- Support standard corded, cordless and DECT phones
- Auto-dial & speed dials available

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Average Power Consumption (Active Antenna Connected)	Current at 15V Average	Power
Standby	0.22 A	3.2 W
Transmit (RJ11/Pots)	0.58 A	8.7 W
Transmit (Speakerphone)	0.53 A	7.9W
Peak Current	1.7 A	26 W

Physical Specifications

	Metric	Imperial
Dimensions	241 x 185 x 93 (mm)	9.49 x 7.28 x 3.66 (inches)
Weight	1.27kg	2.80lb

Environment Specifications

	Metric	Imperial
Operating Range	-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 - 585.65 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

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
10-32 V DC	4-way microFit (AC/DC adaptor, or DC lead)
Configuration/Data	USB Mini B
Privacy Handset Port	RJ9 connector
Speakerphone	In-built speaker/microphone

Certifications

IP54 Rating

5 = Protected against dust limited ingress (no harmful deposits).
4 = Protected against water sprayed from all directions - limited ingress permitted.

Inmarsat, FCC, CE Compliance, Electrical Safety, RoHS, Industry Canada, C-Tick

Kit Contents

Ocean 800 Terminal

ISD710 Maritime Antenna (Active)

110-240V AC Plug Pack 15v DC Out

10-32V DC Power Cable

USB CAble

User Manual & Quick Start Guide

Wall mounting plate

2m alert wiring loop

Privacy handset

1 x spring cup (attached to terminal) 1 x springless cup

Accessories

ISD932	IsatDock/Oceana 6m SMA/TNC Cable Kit (Antenna)
ISD933	IsatDock/Oceana 13m SMA/TNC Cable Kit (Antenna)
ISD934	IsatDock/Oceana 18m SMA/TNC Cable Kit (Antenna)
ISD935	IsatDock/Oceana 31m SMA/TNC Cable Kit (Antenna)
ISD938	IsatDock/Oceana 40m SMA/TNC Cable Kit (Antenna)
ISD942	IsatDock/Oceana 50m SMA/TNC Cable Kit (Antenna)
ISD943	IsatDock/Oceana 60m SMA/TNC Cable Kit (Antenna)
ISD944	IsatDock/Oceana 70m SMA/TNC Cable Kit (Antenna)
ISD945	IsatDock/Oceana 80m SMA/TNC Cable Kit (Antenna)
ISD946	IsatDock/Oceana 90m SMA/TNC Cable Kit (Antenna)
ISD947	IsatDock/Oceana 100m SMA/TNC Cable Kit (Antenna)
RST055	UPS Battery Pack

Instant Message

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