

Terra 400



Terra 400 is a slimline terminal purposely designed for use in fixed site, emergency service applications where permanent reliable communications services are required.

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 (2000 feet) with in-built intelligence to support standard ring, busy and dial tones.

Other key features of the Terra 400 include: a high quality IP53 rated enclosure (rainproof when wall mounted), USB data access and wall or desk mountable.

The Terra 400 is designed to operate with the Inmarsat Link Phone service and is supplied with a dedicated directional/fixed antenna (Passive) system to provide a completely integrated solution that is ready for use anytime.

APPLICATIONS



In-building - PBX integration



Remote Communities and Towns



Remote work sites

KEY FEATURES

DESIGN

- High quality enclosure
- IP53 rated (rainproof)*
- Wall or desk mountable
- Integrated antenna connections
- SIM port rear of terminal

POWER

- 10-32V DC input
- 110/240V AC plug pack included

INTELLIGENT POTS/RJ11 INTERFACE

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

OTHER KEY FEATURES

- Status LED indication for registration/signal, call and messaging
- USB data access
- Basic SMS support via Falcon software application (via USB Port)
- Includes Directional/Fixed Antenna (Passive)
- Supported by Inmarsat's IsatPhone Link Service

*IP53 rated when wall mounted only.

TECHNICAL SPECIFICATIONS

Model: TR400

AVERAGE POWER CONSUMPTION (Passive Antenna Connected)	CURRENT @ 15V AVERAGE	POWER
Standby	0.17A	2.5W
Transmit	0.29A	4.4W
Sleep Mode	4mA	60mW
Peak Current	0.56A	8.4W
PHYSICAL SPECIFICATIONS		
Dimensions	240 x 190 x 53 (mm)	8.0 x 7.5 x 2.1 (inches)
Weight TR400 only	0.58kg	1.28lbs
ENVIRONMENT SPECIFICATIONS		
Operating Range	-20°C to +55°C	-4°F to +131°F
Storage	-30°C to +80°C	-22°F to +176°F
Humidity	<=75% RH	
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	
CERTIFICATIONS		
Inmarsat Type Approval, FCC, CE Compliance, Electrical Safety, RoHS, Industry Canada, C-Tick		
IP53 Rating 5 = Protected against dust limited ingress (no harmful deposits). 3 = Protected against direct sprays of water up to 60° from the vertical.		

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
KIT CONTENTS	
Terra 400 Terminal	
ISD700 Directional/Fixed Antenna (Passive)	
110-240V AC Plug Pack, 15V DC Out	
10-32V DC Power Cable	
USB Cable	
2 x Screws for wall mounting	
User Manual & Quick Start Guide	
Antenna Installation Guide	
OPTIONAL ACCESSORIES	
ISD936	IsatDock/ Terra 10m SMA/TNC cable kit (Passive)
ISD937	IsatDock/ Terra 20m SMA/TNC cable kit (Passive)
ISD939	IsatDock/ Terra 30m SMA/TNC cable kit (Passive)
ISD940	IsatDock/ Terra 40m SMA/TNC cable kit (Passive)
ISD941	IsatDock/ Terra 50m SMA/TNC cable kit (Passive)
RST055	BEAM UPS Battery Pack



Signal Strength



SMS



POTS/RJ11



USB



SIM (Rear)



DATA