



GLOBALSTAR

G S P
2800M

FIXED SATELLITE MARITIME PHONE

The QUALCOMM Globalstar Fixed Satellite Maritime Phone is designed for use in a wide range of marine environments. A ruggedized and versatile satellite voice and data communications product, it is ideally suited for environments where exposure to rain, corrosion, salt spray, splashing and high-pressure water is common. The marine phone offers digital clear voice communication with the calling convenience of conventional two-wire telephony devices.

Globalstar

Simple installation, economically-priced equipment and competitive air time rates combine to make this product a powerful tool for voice and data communications in coastal waters, inland waterways, or at sea, when in range of Globalstar Gateways.

The advantages become clear once this virtually maintenance-free satellite phone is installed and put to use on commercial vessels, pleasure yachts, and cruise ships. Whether the application calls for public access, business, or private secure voice communication, the marine phone provides reliable voice communication when connected to single or multiple telephone sets, multi-line (PBX or Key) systems, or payphones.

The Radio Antenna Unit (RAU), central to the product's operation, should typically be mounted to a mast, a pole, or a horizontal surface. For optimal performance, it should be positioned to maintain a clear line of sight to the satellite constellation, preferably to ten degrees above the horizon.

Small obstacles in the line of sight (e.g., flagpoles) can be tolerated without loss of performance. The RAU can be powered with a solar collector, AC/DC converter (offered as an option), a battery, or any other source that supplies a reliable 12 VDC output.

The proven, outstanding voice quality and commercialized by CDMA pioneer QUALCOMM Incorporated, is now included in a class of satellite phone products which extend the boundaries of communication coverage and services to maritime horizons.

Applications:

- Shipboard communications – single line or PBX
- Remote drilling sites
- Offshore platforms
- Construction camps

Components:

- (RAU)– Electronics module housing the Globalstar radio, digital call-processing circuitry and integral mast antenna
- Mounting Bracket
- 100 ft. power/telephone/data cable
- Terminal block (to simplify interconnection wiring)
- Universal AC Input/12 VDC output Power supply (optional)

Features and Benefits:

- Vibration-Tolerant RAU
- Versatile mounting RAU
- Rugged, weatherproof RAU housing enclosure designed to operate in harsh environments

- Omni-directional antenna radiation pattern (eliminates need for expensive active satellite tracking mechanism)
- Patented satellite diversity (i.e., coverage by multiple satellites)
- Standard two-wire twisted pair telephone set connection
- Speakerphone, cordless phone and answering machine compatible
- Low power consumption (12 W typ., talk mode; 2.5 W stand-by mode)
- 12 VDC operation, with option for solar power
- Supports multiple telephone sets (one phone number per RAU)
- Supports local loop lengths of at least 600 ft.
- Compatible with PBX/Key Systems and Payphones
- Inherently secure CDMA digital voice over Globalstar Satellite System
- Two watt output transmit power

IEC 945 Compliance:*

- Operational vibration
- Rain exposure
- Salt spray exposure
- Solar radiation exposure
- EMC conducted/radiated
- EMC Immunity

SYSTEM SPECIFICATIONS:

Temperature Range			
		Operational	Storage
RAU		-30 to +60° C	-40 to +85° C
Optional Power Supply, 12VDC output		0 to +50° C	-40 to +85° C
Humidity		0 – 95%	
RF Power Output		2 watt maximum (+33 dBm)	
Electrical Requirement, RAU		9 – 16 VDC @ 2.5A max	
Vocoder		8k variable rate	
Globalstar operating frequency range		Reverse Link: 1610.73 to 1625.49 MHz Forward Link: 2484.39 to 2499.15 MHz	
RAU Component		Dimensions (all measurements approximate)	
Housing	width	21.5 cm	(8.5 in.)
	height	24.6 cm	(9.7 in.)
	depth	10.7 cm	(4.2 in.)
Mast Antenna	diameter	2.5 cm	(1.0 in.)
	height	50.3 cm	(19.8 in.)
RAU and housing	weight	3.2 kg	(7.0 lbs.)



GSP-2800M

The GSP-2800M is ETSI type approved, ITU registered per GMPCS-MOU, compliant with FCC parts 15B and 25 and is UL/c-UL approved.

For additional information, please visit our website: www.qualcomm.com.

The information contained herein is preliminary and subject to change at any time without notice.

*Pending