星天海洋
STARTEST MARINE

GeoCom-0408U

Underwater Acoustic Modem

Product Overview

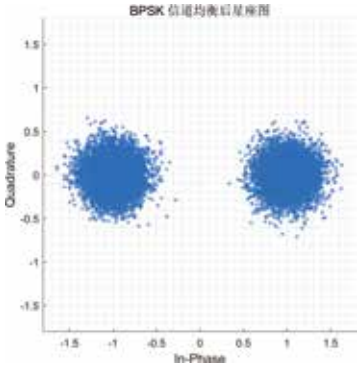
GeoCom-0408U hydroacoustic communication equipment, built-in-validation modules and batteries, specially designed for long-term observation platforms such as seabed foundations and sub-criteria. Using a segment structure, which can work at a depth of 6,000 m, provides more flexible installation facilities for users, and uses TC4 titanium alloy materials for light quantification designs that can meet the needs of heavy-sensitive users. Standard control protocols and processes are in place to provide technical support for the development of control protocols. The hydroacoustic communication device is available at a distance of up to 30 km and a maximum user rate of 1 kbps (miscal)

Sound water acoustic communication services at 10-4.

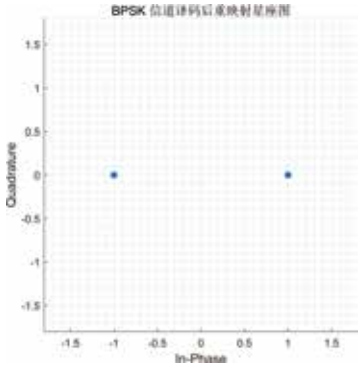


GeoCom-0408U

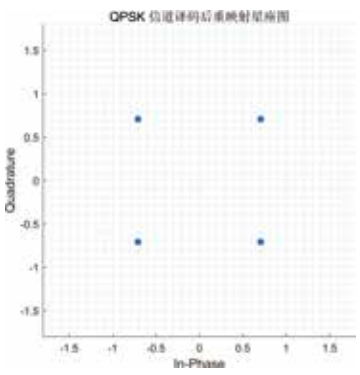
[Bit Error Rate Plots]



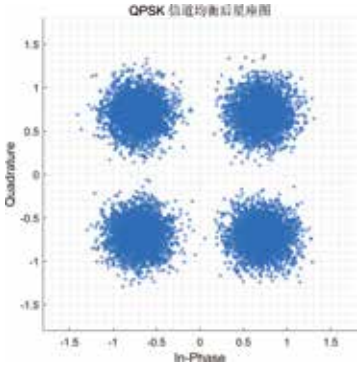
BPSK channel balance map



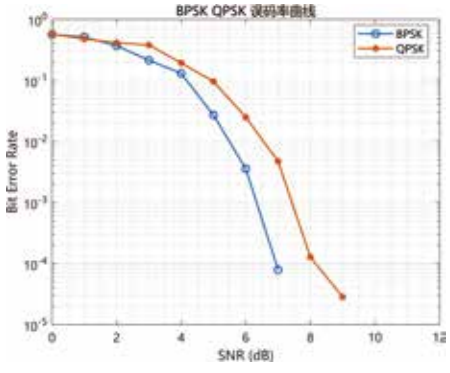
Remagnation of constellations after translation of BPSK channel



Remagnation of constellations after translation of QPSK channel

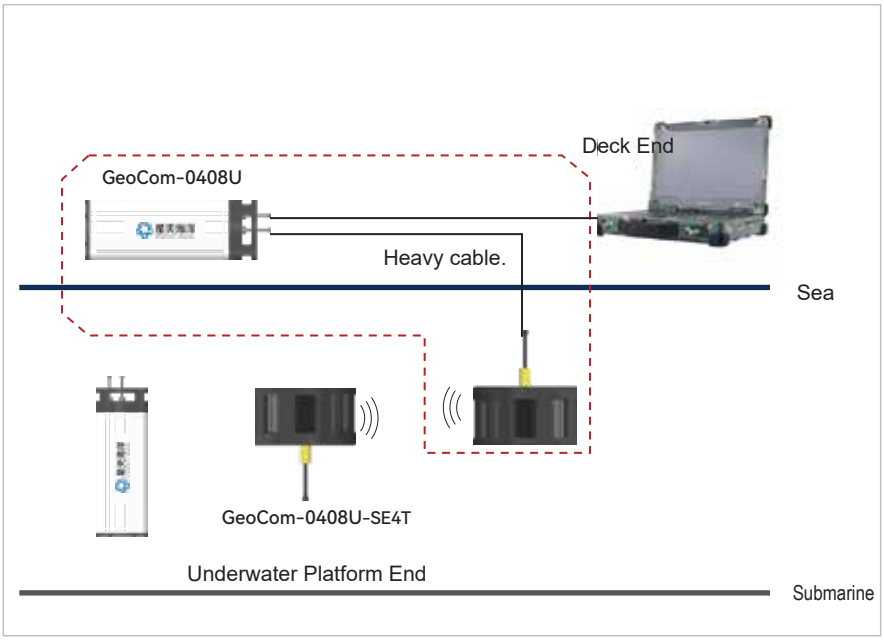


QPSK channel balance map

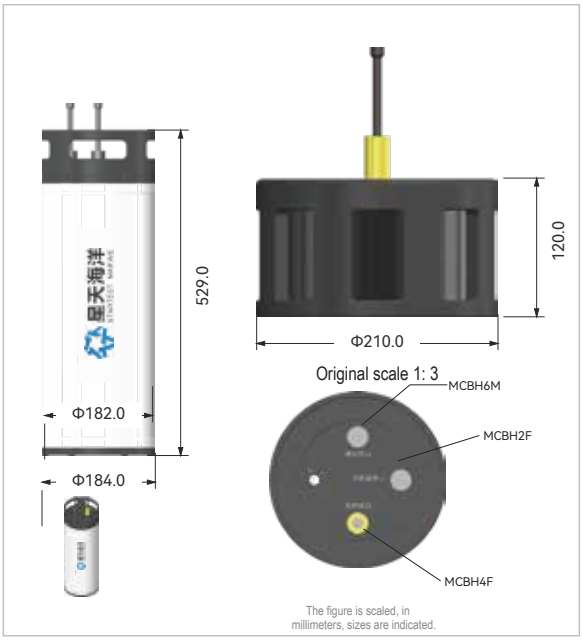


Errorrate Curve

[Application Diagrams]



Application Diagrams



Size graphs

[Technical Specifications]

Communications bands	4 kHz-8 kHz
Communications distance	Max. 30 km (affected by the communications environment and channel)
Communication rate	100 bps-1 kbps
Communication error rate	10^{-4}
Working mode	Launch / Receive / Standby
Mode of communication	Half-difference.
Communication formula	MASS and SC-MPSK Double Model
Maximum Working Depth	6000 m (with 600 m design surplus)
Control interface	RS232 (default at the subsurface buoy), optional RS485 / RS422

[Physical Specifications]

Structure form	Division Structure
Materials	TC4 titanium alloys
Internal Modules	Watch module and battery
Watchwork.	20 mW
Receiving Mode Usage	3.6 W
Launch mode power.	Max. 300 W (programmable power setting block)
Outer Dimensions	184 mm in diameter x height 530 mm
Weight in air	24.2 kg
Water weight	12.4 kg
Maximum pressure	6600 m deep pressure

Note: The frequency bands are co-replaced energy-replacement bands, and the actual communication signal bands vary with the pattern and parameters of communication. Distance changes with the environment and channel, the manual indicates that reliable acoustic paths, acoustic axes, etc., can reach more than 30 km, and that the end of the deck needs to focus on the ship ' s self-noise and sound compatibility. Communication rates can be automatically adjusted remotely at the start-up end, with the bottom supporting handshake adjustments, the weight is estimated and the actual product has a 10% deviation.

星天海洋
STARTEST MARINE

www.startest.cn
market@startest.net
+86-15711204676

Beijing StarTest Technology Co., Ltd.
Dongsheng Science & Technology Park, Haidian, Beijing
7F, Bldg. 4, Courtyard 6

Zhejiang StarTest Marine Science & Technology Co., Ltd.
Xiuzhou District, Jiaxing, Zhejiang
Room 01-2, 11F, Bldg. 3, Huayu Center, Xincheng

Official WeChat