星天海洋
STARTEST MARINE

GeoCom-1632U

Underwater Acoustic Modem

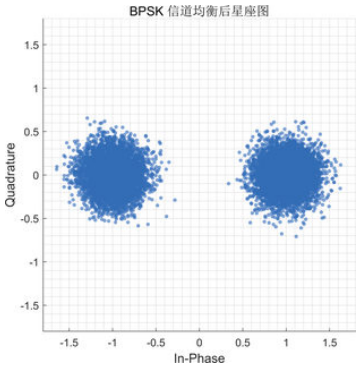
Product Overview

The GeoCom-1632U hydroacoustic communication equipment, which is used as a deck unit for the GeoCom-1632 hydroacoustic communication equipment series, has the advantage of being flexible in layout, control and use. The user configures and drives this type of equipment by installing on-board software (random) on laptops, combining USB to RS 485 threads and load cables. 50 m heavy cable mounted at 30 m underwater depth (4.5 MP a, special ground can pass through fixed and extended cloths that are now deeper). It contains 3.5 Ah@16.8V batteries, which are charged on a single charge for approximately 8 hours (measured at 8 hours of reception, with a maximum power launch of 1 hour) and meet most of the operational requirements at sea. The hydroacoustic communication equipment is available at a maximum distance of 3 km, with a maximum 4kbps user rate (in error rate of 10-4) for robust hydroacoustic communication services.

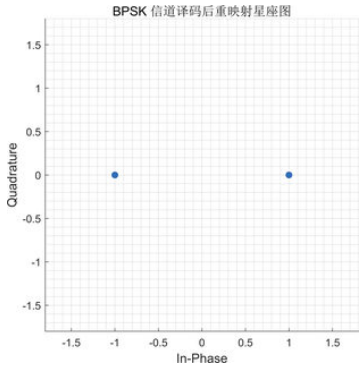


GeoCom-1632U

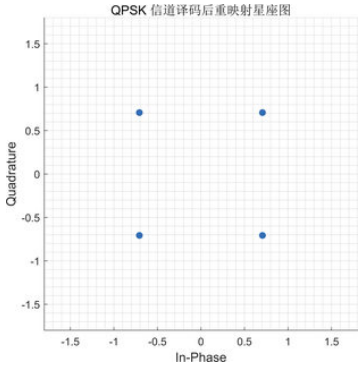
[Bit Error Rate Plots]



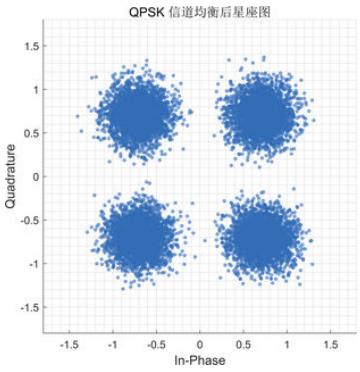
BPSK channel balance map



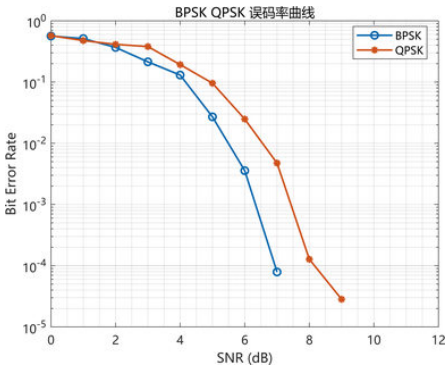
Remagnation of constellations after translation of BPSK channel



Remagnation of constellations after translation of QPSK channel

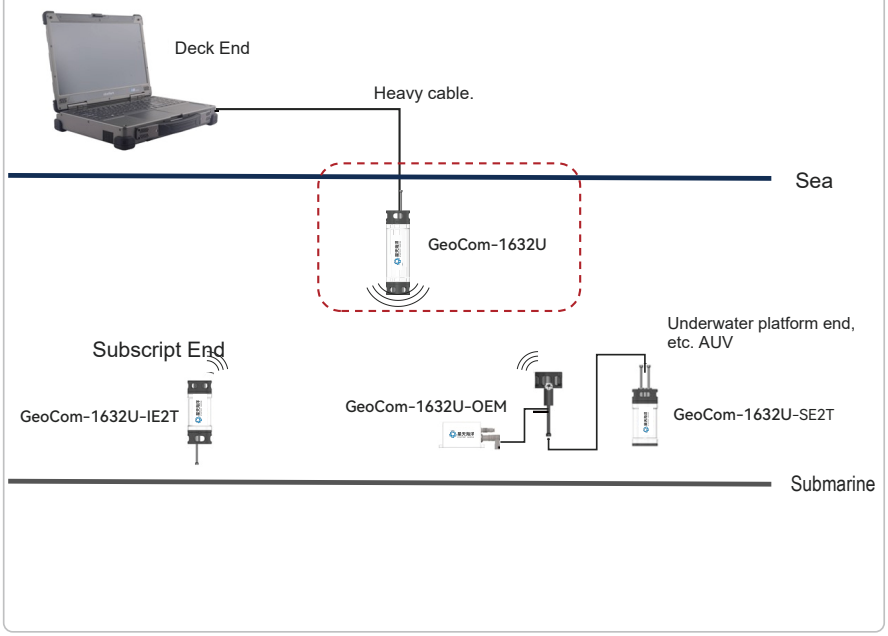


QPSK channel balance map

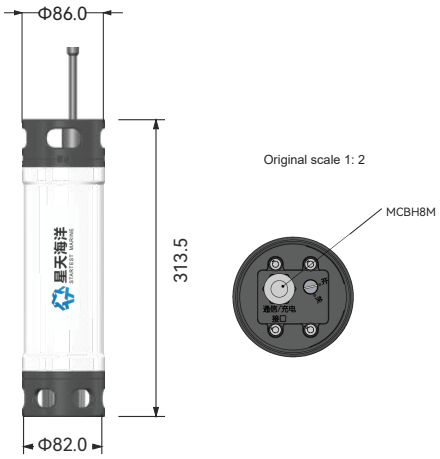


Errorrate Curve

[Application Diagrams]



Application Diagrams



The figure is scaled, in millimeters, sizes are indicated.

Size graphs

[Technical Specifications]

Communications bands	16 kHz–32 kHz
Communications distance	Max. 3 km (affected by environment and channel)
Communication rate	100 bps–4 kbps
Communication error rate	10^{-4}
Working mode	Launch mode / Receiving mode
Mode of communication	Half-difference.
Communication formula	MASS and SC-MPSK Double Model
Control interface	RS485 (default), optional RS232/RS422
Speed Configuration	Cannot initialise Evolution's mail component.
Formula Adjustments	Support for handless communication formula adjustments to achieve speed switching

[Physical Specifications]

Power supply	Internal Batteries
Internal Battery Capacity	3.5Ah @ 16.8 V
Heavy cable.	Plot 50 m, (specified and extended as required)
Pair Depth	Underwater 30 m
Design rated working depth	300 m
Design maximum pressure	4.5 MPa
Extreme water depth pressure	I can withstand 600 m deep pressure.
Size (book table value)	82 mm x height 314 mm*
Weight in air	6.1 kg
Water weight	4.8 kg
Time of single charge	About 8h (for statistical conditions, see note)

Note: The frequency band is the frequency range of the transient mixer and the actual signal varies according to the pattern and parameters, the maximum 3 km is affected by the environment, channel and acoustic compatibility. Resuscitation caliber is "Acceptance 8 hours with maximum power to launch 1 hour consecutively", the weight is estimated and the actual product has a 10% deviation.

At the end of the deck, attention will be paid to the sound of the ship's host.

* Size is based on physical and technical confirmation.

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