Undersea Wireless Communications

High Data Rate, Low Power, Ultrasonic MODEM

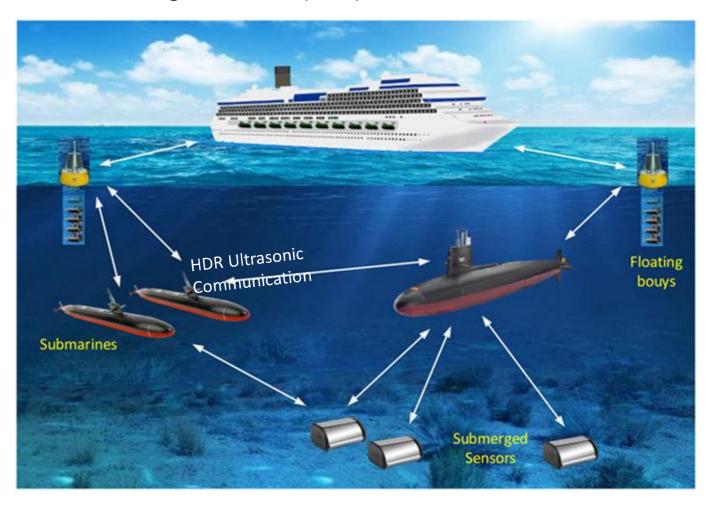


Teaser

1 slide:

No wire tethered underwater vehicles
Wireless Network for Sensor Tags on Ocean Floor
New Adventure for Ocean Floor

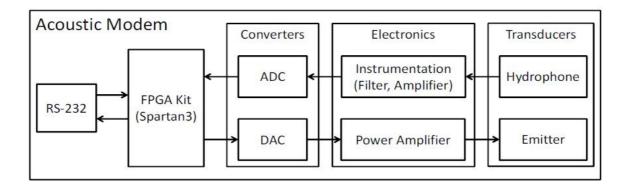
Underwater High Data Rate(HDR) Ultrasonic Communications



High Data Rate Ultrasonic Communication, K Jeon(kchun@yiruri.com)

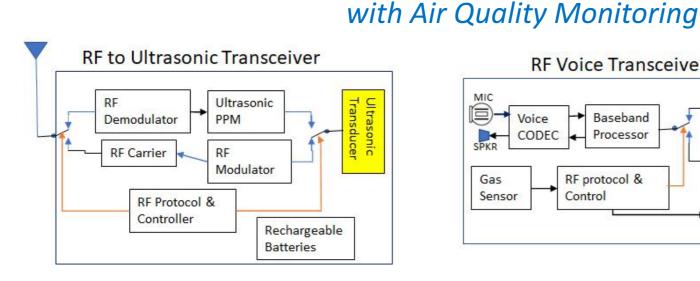
Proposal Introduction

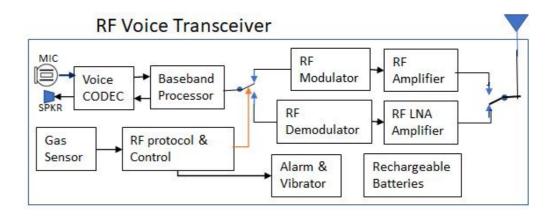
Develop High Data Rate, Low Power, Ultrasonic Comm MODEM Technology



Proposal Introduction

Develop RF Comm based Ultrasonic Comm MODEM Technology Develop Metal Block Container Ultrasonic Transceiver





Proposal Introduction

We will achieve the following:

- 1. Easy and Safe Operation of Ocean Exploration with Wireless Communications
 - 2. Untethered Operation of Undersea vehicles
 - 3. Monitoring and Control of Undersea Valuable Resources
- 4. Develop High Data Rate, Low Power Digital Ultrasonic Comm Modulation Demodulation and Multiple Access Technologies

PotentialWork Packages

We see the following activities:

- 1. Underwater channel characterization, statistical modeling and estimation
 - 2. MIMO and Multi-Carrier systems in underwater communications
 - 3. Transceiver design: Modulation, coding and detection technique
 - 4. Underwater wireless networking protocols and cross-layer design
 - 5. High Data Rate Underwater Wireless Communication Test Bed Construction

Partners

1 slide:

Existing consortium, involved countries.

Expertise, profiles and types of partners you are looking for.

Currently No Underwater wireless Communication Standard
Organization or Consortium exist.
Need to initiate the standard organization from the beginning of
the development.

ICT for Undersea

Contact Info





For more information and for interest to participate please contact:

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