Communication distance of offshore base station

Overview

Using the masthead VHF radio as the detection system for AIS targets, ships may be seen at ranges easily of 15 to 22 miles. Most are not water resistant, and their range is relatively short. The maximum range to and from a cell antenna/station varies, but it is basically line-of-sight. Unique. Randy Repass' Wylie 65' Convergence is equipped with a Single Sideband radio and an Iridium satellite phone. Are you planning a coastal or offshore race or cruise, or perhaps a trip to Hawaii or the Caribbean?

You will be out of range of VHF radio, the standard local ship-to-ship or ship-to-shore. It is extremely important to obtain a Maritime Mobile Service Identity (MMSI)which is a nine-digit number required for Digital Selective Calling (DSC) and AIS to uniquely identify a ship or a coast radio station. If you will be in foreign waters (Canada, Bermuda, etc.), FCC regulations require that. In this paper, we propose an integrated sensing and communication (ISAC) base station (BS) system designed for applications by multiple users in complex offshore environments.

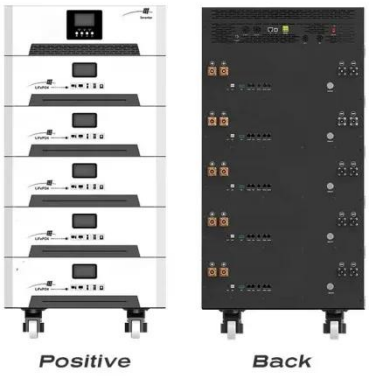
Communication distance of offshore base station

Offshore Network Coverage Assement and Benchmarking

Coverage can fluctuate wildly (from 0.21 km near shore to over 43.74 km in far-sea areas), influenced by the curvature of the earth, sea surface reflection, and the sheer distance from coastal ...

Joint waveform design for multi-user maritime integrated sensing and

In this paper, we propose an integrated sensing and communication (ISAC) base station (BS) system designed for applications by multiple users in complex offshore environments.

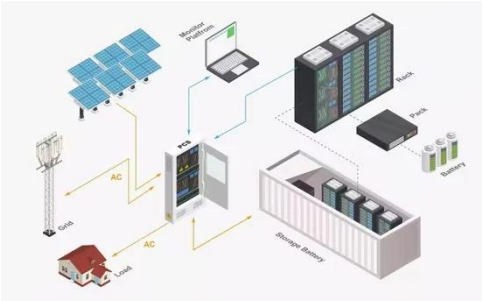


Coastal and Offshore Communications Guide

The U.S. Coast Guard broadcasts National Weather Service high seas forecasts and storm warnings from six high seas communication stations. These broadcasts are prepared cooperatively by the ...

Long Distance Offshore Marine Communication , West Marine

You will be out of range of VHF radio, the standard local ship-to-ship or ship-to-shore communication system, whenever you are more than 20 miles offshore. Cell phones offer even less ...

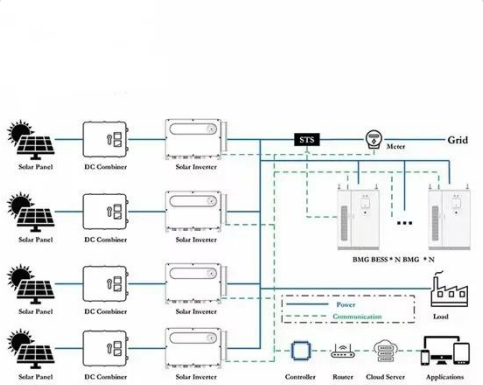


Full article: Resource allocation of offshore ships' communication

This paper introduces D2D technology into the offshore ships' communication system and proposes a channel resource allocation scheme for interference control in the system, so as to ...

Unified Design of Space-Air-Ground-Sea Integrated Maritime ...

In the context, this paper proposes a space-air-ground-sea integrated maritime communication architecture combining satellite, unmanned aerial vehicle (UAV), terrestrial base ...



Marine Communications

The usual reliable range of CB is five

miles. There are several pitfalls to having a CB radio on the water: Making contact may be difficult, since not all boats have CB radios. Channel noise and station traffic ...

Marine SSB and Offshore Communications 2016

VHF frequencies for voice communication run from 156.05 to 157.425 MHz. AIS and weather frequencies are at about 162 MHz. These frequencies are far beyond what ham-fisted wiring ...

Modelling communication capability and node reorientation in offshore

Conventional communication technologies such as cellular network and Very High Frequency (VHF) marine radio provide offshore connectivity up to 20 km, from an onshore base ...

(PDF) Resource allocation of offshore ships' communication system ...

This paper first establishes the model of the offshore ships' communication system and then applies the Hungarian algorithm based on the maximization of the average position.

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