

# Iceland 350m base station communication principle





## Overview

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Does Iceland radio offer satellite communication?

Iceland Radio offers satellite communication service to aircrafts through IRIDIUM and IMMARSAT. When HF conditions deteriorate, a satellite communication can be applied. If the aircraft is equipped with a satellite phone on board, pilots can call Iceland Radio centre when necessary.

What frequencies does Iceland radio use?

From Iceland Radio, aeronautical communication service is provided every day for 24 hours through HF and VHF GP frequencies. VHF service is continuous over the North Atlantic Ocean with COM equipment located in Iceland, Greenland, and the Faroe Islands. Operating frequencies are VHF 126.550, VHF 127.850, and VHF 129.625.

Why do omnidirectional base station antennas have a large coverage area?

Omnidirectional base station antennas have a large coverage area as they can transmit and receive signals over 360 degrees, however their gain is low and hence lower signal strength and shorter range.

Can Iceland radio call aircraft?

Moreover, Iceland Radio can call aircrafts equipped with a satellite phone. Aircrafts can request a phone patch to their company dispatch unit or to Medlink when necessary. Through HF and landline interconnection, Iceland radio can call and connect an aircraft to their company dispatch unit or to Medlink.



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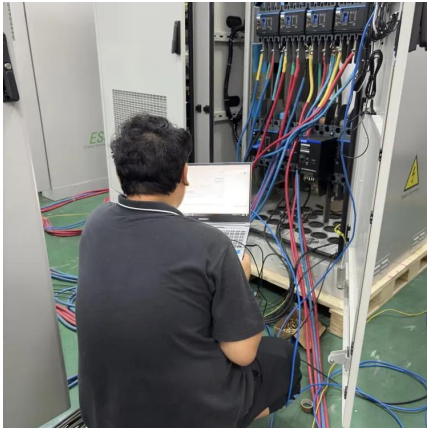
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