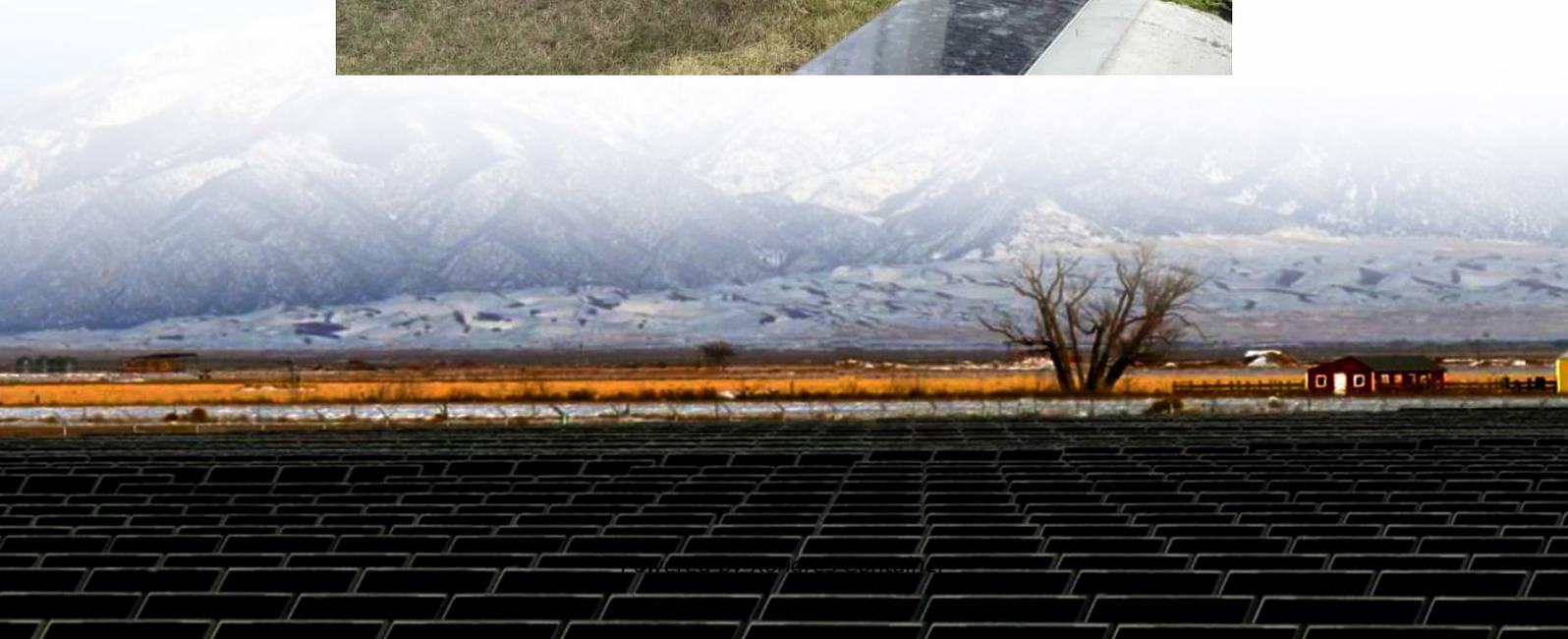


## Kongres Container

# Beacon base station communication equipment



## Overview

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How many MHz is a radio propagation beacon?

According to IARU bandplans, the following 28 MHz frequencies are allocated to radio propagation beacons: The first radio propagation beacon on 40 MHz is OZ7IGY in Jystrup, Denmark (JO55WM) and transmits on 40071 kHz 40021 kHz (40.071 MHz). Transmitted power is 20 W to a dipole antenna. The beacon is frequency- and time-locked to GPS.

What are the FCC rules for a beacon station?

FCC rules, §97.203 Beacon station. (a) Any amateur station licensed to a holder of a Technician, Technician Plus, General, Advanced or Amateur Extra Class operator license may be a beacon.

What does a base station do?

It serves as the central hub that connects multiple user devices (such as radios, mobile phones, or IoT devices) to a network, enabling long-range communication. Base stations are equipped with transmitters and receivers, which help to send and receive radio signals to and from mobile devices.

Can a beacon transmit on more than one channel?

(b) A beacon must not concurrently transmit on more than 1 channel in the same amateur service frequency band, from the same station location.

Why do beacons operate on 70 MHz?

Numerous beacons operate on 70 MHz in recent years. Their main purpose is to detect the relatively rare and extreme Es (sporadic E) openings, which exceed 70 MHz. There is no definite international beacon allocation, due to various countries having different amateur radio allocations in this band.

Are base stations a good way to stay connected?

Base stations are a great way to stay connected, especially during an emergency. We have base station radios, antennas, and microphones! Same with a vehicle antenna, the longer and higher the antenna is, the more range you will get.

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### Contact Us

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