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Sweden OHEDG purposes only For development, rurposes only For development purposes only For

2023-11-30 22:28 2023-11-30 22:24 2023-11-30 22:24

2023-11-30 22:12 2023-11-30 22:12 R2BDY

frequency drift.

DK6UG

OE3GBB

The example of this WSPR beacon (QRPX power level) reception. Last max QRB is ~3400 km on 40m band.

2038

1675

203800

WSPR beacon for Raspberry Pi Pico, based

on pico-hf-oscillator PLL DCO library as

submodule. The GPS reference is used to

compensate Pico's clock drift. GPS is also

used to schedule WSPR transmissions.

```
NO additional hardware
```

signal on the GPIO pin of Raspberry Pi Pico.

appropriate frequency if you want to use this

module extensively. The power transmitted

using GPIO pin is sufficient only when using

such option available, you need to boost the

full-size dipole as antenna. If there is no

signal using simple 1 transistor amplifier.

The WSPR beacon provides the output

No externall PLL, analog oscillators! You

should only provide a lowpass filter of

High spectrum quality and less than 1Hz

For what?

This is an experimental project of amateur radio hobby and it is devised by me in order to experiment with QRP narrowband digital modes. I am licensed radio amateur who is keen on experiments in the area of the digital modes on HF. My QRZ page is

Install Raspberry Pi Pico SDK. Configure

environment variables. Test whether it is

https://www.grz.com/db/R2BDY

git clone https://github.com/RPiks/pico-WSPR-tx

4. ./build.sh

kHz).

3. cd pico-WSPR-tx

built successfully.

Quick-start

6. Load the .uf2 file (2) into the Pico.7. Initialy the operating HF band is 17 meter (WSPR dial frequency is 18106)

WSPR-tx.uf2 appears.

5. Check whether output file ./build/pico-

Cheers, Roman Piksaykin, amateur radio callsign R2BDY

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on Dec 15, 2023

the github page of the project:).

8. Provide the feedback by clicking like on

Releases 5

Release 1.01 of the library Latest

Languages

Packages

+ 4 releases

● C 87.0% ● CMake 12.7%

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No packages published

Shell 0.3%

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