The Latest

Beacon FM-CW

Posted by AG6QV Frank
Tags:

In the previous post I described how to make a HAM Radio beakon that could work with both CW and FM modulation. As I was testing the results of that I noticed an issue with the FM modulation as it would also modulate the carrier. That was not the intention, but it did function as an FM beacon. In this updated design I have utilized two Selector Blocks to switch the morse code signal either directly to the HackRF One or to go through the FM modulation stages to provide a constant tone.

I also updated the GUI to have a slider to set the CW speed between 5 and 20 words per minute with a default of 12 and added an input box to change the message used to generate the CW code. The screenshot below was created from running the Python code after manually adding the additional frequencies.

The two Python files are available for download: Beacon.py and Beacon_epy_block_0.py as well as the flow graph: Beacon.grc.

Link to this Post

Get notified via email when new posts are published.

Sign Up

Recent Blog Posts

Blog Archives

May 2025 {1}

April 2025 {1}

March 2025 {1}

January 2025 {2}

October 2024 {5}

March 2024 {1}

August 2023 {1}

May 2023 {1}

April 2023 {1}

March 2023 {1}

January 2023 {2}

Tags

10 GHz {3}

2m {3}

GNU Radio {5}

HackRF One {4}

HAM {7}

HF {2}

PNW Microwave {2}

X-Band {1}

Calendar

June 2025

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					