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MEPT - a WSPR beacon

Versionsgeschichte interaktiv durchsuchen
VisuellWikitext

Version vom 1. Juli 2009, 09:26 Uhr (Quelltext anzeigen)
Oe1mcu (Diskussion | Beiträge)
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Version vom 1. Juli 2009, 09:29 Uhr (Quelltext anzeigen)
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(→Connectors:)
Zum nächsten Versionsunterschied →

Zeile 14:

A versatile beacon concept that consists of a number modules that can be combined according to the application.

– == Connectors: ==

– * ""USB interface"" to connect to a Windows application for configuration

– * ""serial interface"" to attach a GPS mouse

* ""SPI bus"" to interconnect the modules

* ""ICSP"" for in circuit serial programming of the PIC processor

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== Features: ==

Zeile 14:

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+ == Anschlüsse: ==

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+ * ""serial interface"" zum Anschluss der GPS Maus

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== Features: ==

Version vom 1. Juli 2009, 09:29 Uhr

VERSATILE WSPR BEACON for MOBILE and FIXED applications

MEPT = Manned Experimental Propagation Transmitter



Es dauerte einige Monate - aber jetzt ist es (fast) fertig.

A versatile beacon concept that consists of a number modules that can be combined according to the application.

Anschlüsse:

- **USB interface** für die Windows Konfigurations Software
- **serial interface** zum Anschluss der GPS Maus
- **SPI bus** to interconnect the modules
- **ICSP** for in circuit serial programming of the PIC processor

Features\:

- Configuration software for Windows
- Beacon runs independent from PC
- Time and Location can be derived from GPS signal

- Autonomous generation of WSPR data string in local microcontroller
- Up to 8 different filters selectable through filter switch box
- Up to 4 Attenuator networks selectable through attenuator switch box
- Multiple DDS & PA modules attachable to one controller
- DDS & PA module for 1.8-50MHz with up to 15W

At the moment there are two modules. The CPU box with a DDS/PA module and a switch box that can hold up to 8 filter and one attenuator modules



Here you can find an overview of the possible configurations

MEPT CONFIGURATIONS

A detailed description of the individual modules can be found here

MEPT CPU

MEPT switch module

I have a long list of improvements and additions I want to create to my beacon system. Here is a list of my plans (Although I don't know yet where to find the time to do all that)

MEPT_Development_Plan

Weiter Informationen: <http://www.oelifm.at/>