MEPT - a WSPR beacon

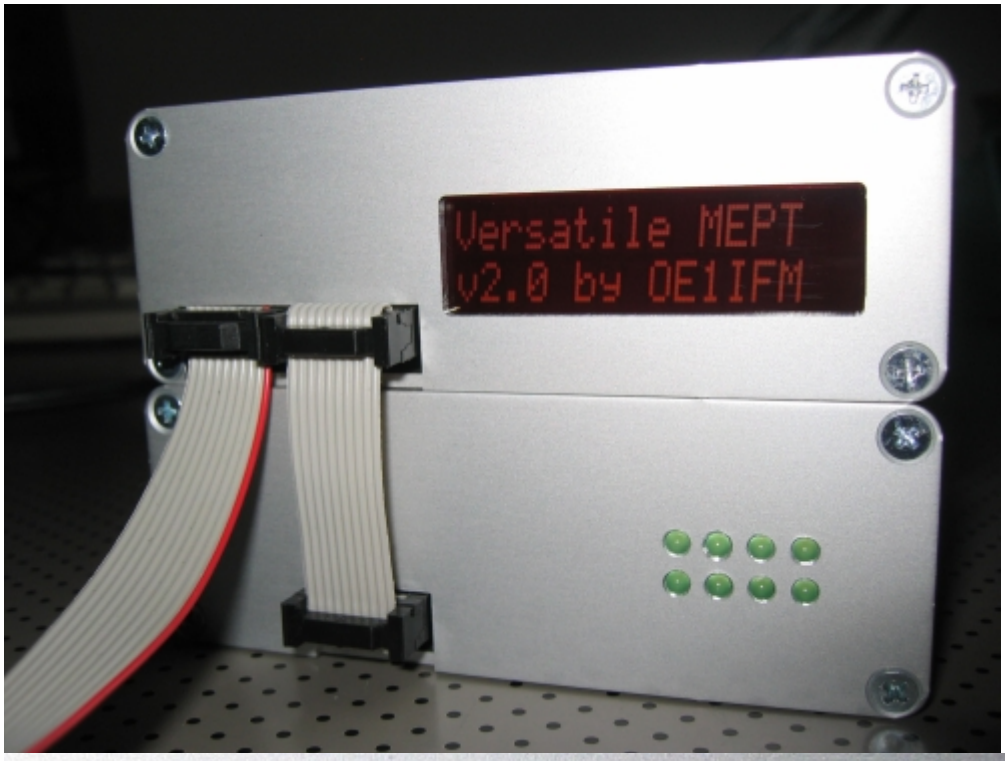
Versionsgeschichte interaktiv durchsuchen
VisuellWikitext

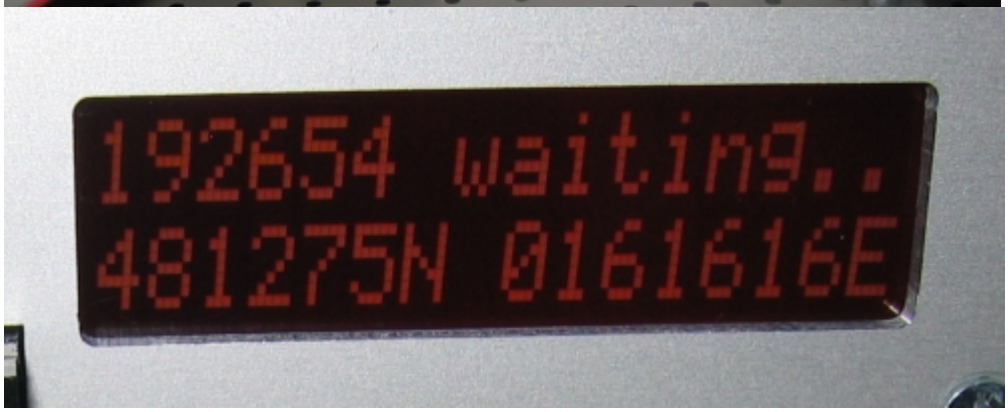
Version vom 1. Juli 2009, 09:26 Uhr (Quelltext anzeigen) Oe1mcu (Diskussion | Beiträge) ← Zum vorherigen Versionsunterschied	**Version vom 1. Juli 2009, 09:29 Uhr (Quelltext anzeigen)** Oe1mcu (Diskussion | Beiträge) (→Connectors:) Zum nächsten Versionsunterschied →
Zeile 14:	**Zeile 14:**
A versatile beacon concept that consists of a number modules that can be combined according to the application.	A versatile beacon concept that consists of a number modules that can be combined according to the application.
− == **Connectors**: ==	+ == **Anschlüsse**: ==
− * '''USB interface''' **to connect to a** Windows **application for configuration**	+ * '''USB interface''' **für die** Windows **Konfigurations Software**
− * '''serial interface''' **to attach a** GPS **mouse**	+ * '''serial interface''' **zum Anschluss der** GPS **Maus**
* '''SPI bus''' to interconnect the modules	* '''SPI bus''' to interconnect the modules
* '''ICSP''' for in circuit serial programming of the PIC processor	* '''ICSP''' for in circuit serial programming of the PIC processor
−	
== Features: ==	== 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.oe1ifm.at/