Inhaltsverzeichnis

MEPT - a WSPR beacon

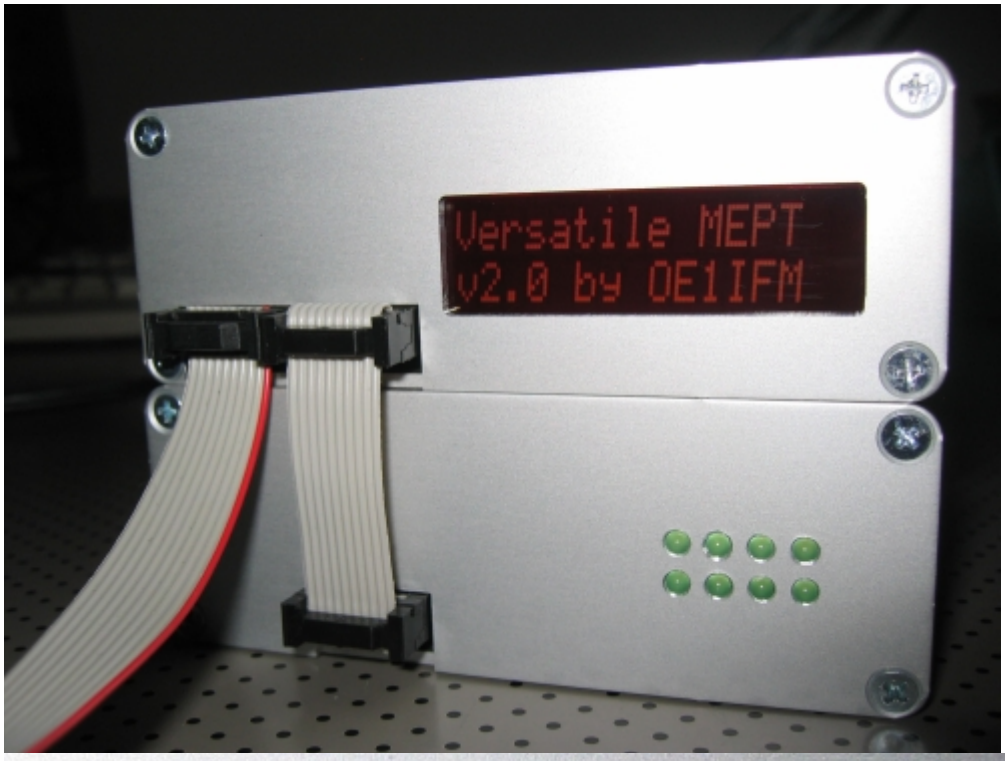
Versionsgeschichte interaktiv durchsuchen
VisuellWikitext

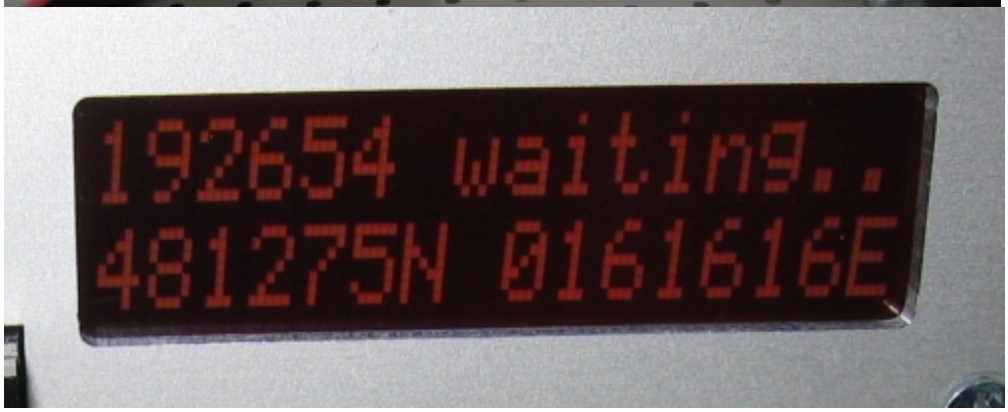
Version vom 1. Juli 2009, 09:30 Uhr (Quelltext anzeigen) Oe1mcu (Diskussion | Beiträge) (→Features:) ← Zum vorherigen Versionsunterschied	**Version vom 1. Juli 2009, 09:30 Uhr (Quelltext anzeigen)** Oe1mcu (Diskussion | Beiträge) (→Ausstattung:) Zum nächsten Versionsunterschied →
Zeile 31:	**Zeile 31:**
* Multiple DDS & PA modules attachable to one controller	* Multiple DDS & PA modules attachable to one controller
* DDS & PA module for 1.8-50MHz with up to 15W	* DDS & PA module for 1.8-50MHz with up to 15W
− * **BAnds** (80m / 40m / 30m / 20m/ 17m / 15m / 12m / 10m / 6m)	+ * **Bänder** (80m / 40m / 30m / 20m/ 17m / 15m / 12m / 10m / 6m)

Version vom 1. Juli 2009, 09:30 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

Ausstattung\:

- 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
- Bänder (80m / 40m / 30m / 20m/ 17m / 15m / 12m / 10m / 6m)

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/

MEPT - a WSPR beacon: Unterschied zwischen den Versionen

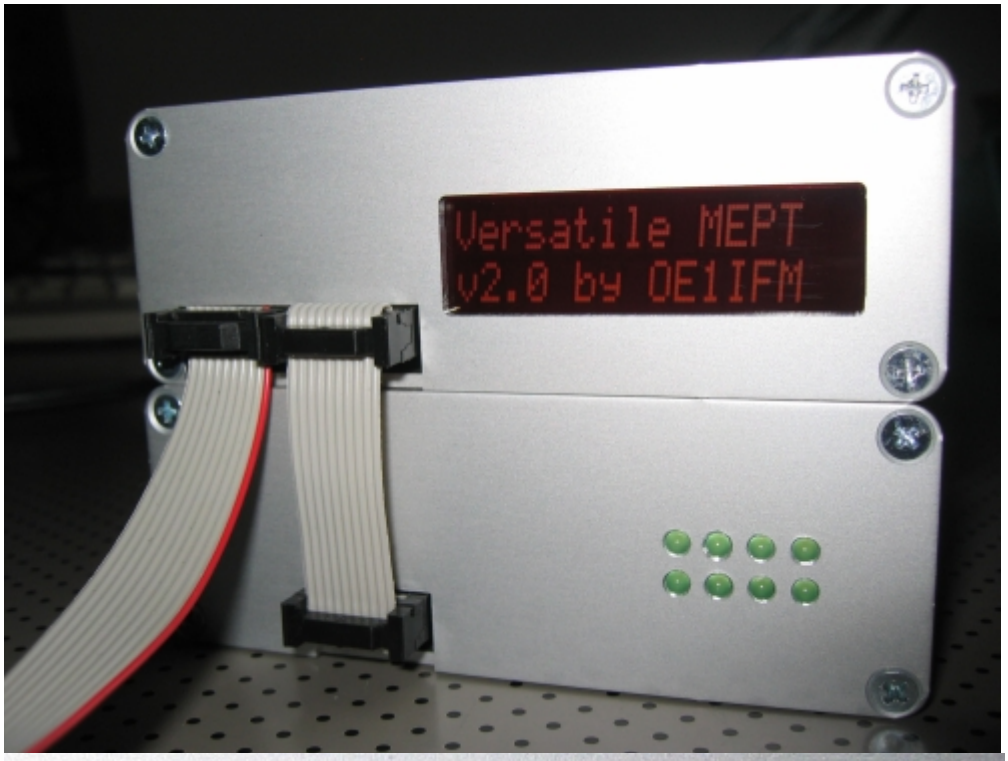
Versionsgeschichte interaktiv durchsuchen
VisuellWikitext

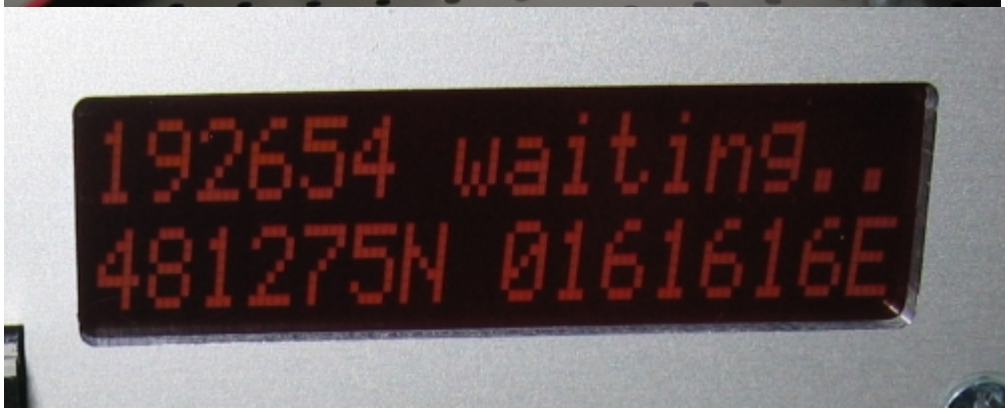
Version vom 1. Juli 2009, 09:30 Uhr (Quelltext anzeigen) Oe1mcu (Diskussion | Beiträge) (→Features:) ← Zum vorherigen Versionsunterschied	**Version vom 1. Juli 2009, 09:30 Uhr (Quelltext anzeigen)** Oe1mcu (Diskussion | Beiträge) (→Ausstattung:) Zum nächsten Versionsunterschied →
Zeile 31:	**Zeile 31:**
* Multiple DDS & PA modules attachable to one controller	* Multiple DDS & PA modules attachable to one controller
* DDS & PA module for 1.8-50MHz with up to 15W	* DDS & PA module for 1.8-50MHz with up to 15W
− * **BAnds** (80m / 40m / 30m / 20m/ 17m / 15m / 12m / 10m / 6m)	+ * **Bänder** (80m / 40m / 30m / 20m/ 17m / 15m / 12m / 10m / 6m)

Version vom 1. Juli 2009, 09:30 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

Ausstattung\:

- 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
- Bänder (80m / 40m / 30m / 20m/ 17m / 15m / 12m / 10m / 6m)

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/

MEPT - a WSPR beacon: Unterschied zwischen den Versionen

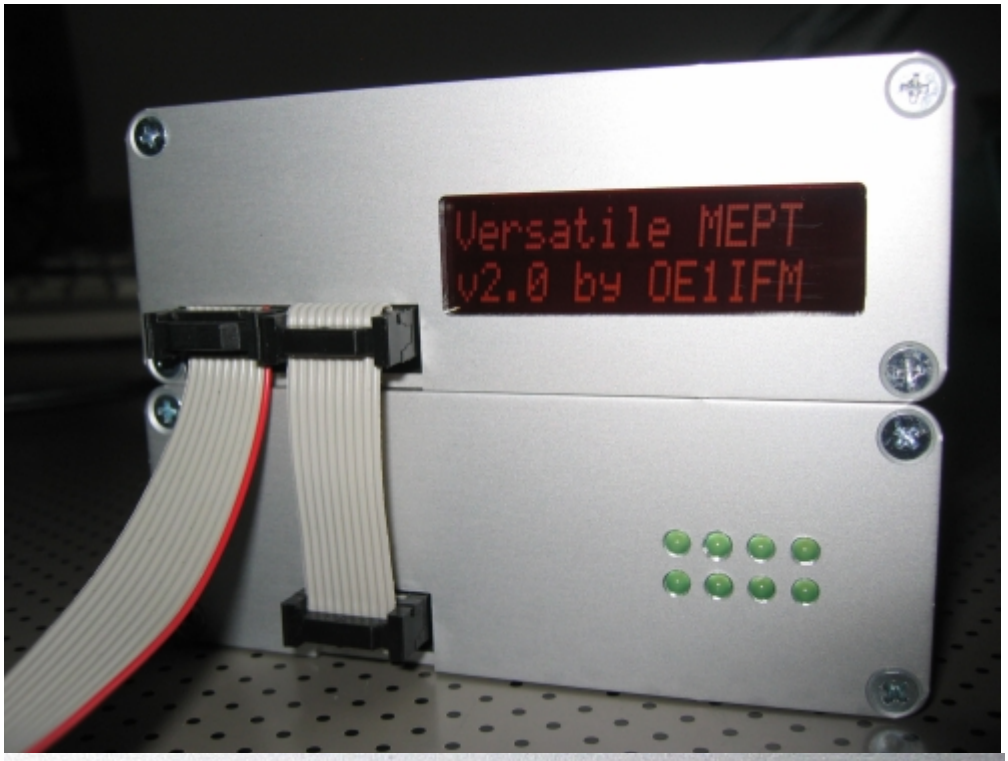
Versionsgeschichte interaktiv durchsuchen
VisuellWikitext

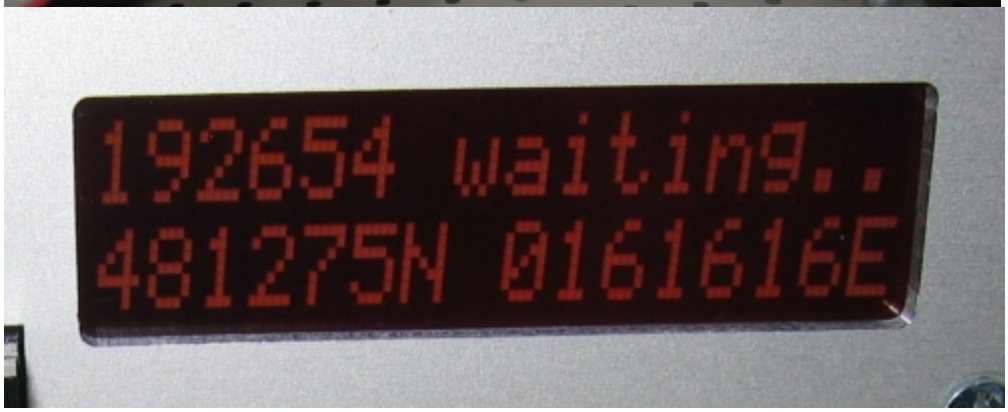
Version vom 1. Juli 2009, 09:30 Uhr (Quelltext anzeigen) Oe1mcu (Diskussion | Beiträge) (→Features:) ← Zum vorherigen Versionsunterschied	**Version vom 1. Juli 2009, 09:30 Uhr (Quelltext anzeigen)** Oe1mcu (Diskussion | Beiträge) (→Ausstattung:) Zum nächsten Versionsunterschied →
Zeile 31:	**Zeile 31:**
* Multiple DDS & PA modules attachable to one controller	* Multiple DDS & PA modules attachable to one controller
* DDS & PA module for 1.8-50MHz with up to 15W	* DDS & PA module for 1.8-50MHz with up to 15W
− * **BAnds** (80m / 40m / 30m / 20m/ 17m / 15m / 12m / 10m / 6m)	+ * **Bänder** (80m / 40m / 30m / 20m/ 17m / 15m / 12m / 10m / 6m)

Version vom 1. Juli 2009, 09:30 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

Ausstattung\:

- 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
- Bänder (80m / 40m / 30m / 20m/ 17m / 15m / 12m / 10m / 6m)

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/