

Inhaltsverzeichnis

|                               |   |
|-------------------------------|---|
| 1. MEPT - a WSPR beacon ..... | 8 |
| 2. Benutzer:Oe1mcu .....      | 5 |

MEPT - a WSPR beacon

Versionsgeschichte interaktiv durchsuchen  
VisuellWikitext

Version vom 30. Juni 2009, 21:51 Uhr (Quelltext anzeigen)  
Oe1mcu (Diskussion | Beiträge)  
← Zum vorherigen Versionsunterschied

Version vom 1. Juli 2009, 09:21 Uhr (Quelltext anzeigen)  
Oe1mcu (Diskussion | Beiträge)  
Zum nächsten Versionsunterschied →

|                                                                          |                                                                          |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Zeile 4:                                                                 | Zeile 4:                                                                 |
| <div>== VERSATILE WSPR BEACON for MOBILE and FIXED applications ==</div> | <div>== VERSATILE WSPR BEACON for MOBILE and FIXED applications ==</div> |
| <div></div>                                                              | <div></div>                                                              |
| <div>–</div>                                                             | <div>+ MEPT = Manned Experimental Propagation Transmitter</div>          |
| <div></div>                                                              |                                                                          |
| <div>–</div>                                                             |                                                                          |
| <div></div>                                                              |                                                                          |
| <div>–</div>                                                             |                                                                          |
| <div></div>                                                              |                                                                          |
| <div></div>                                                              |                                                                          |

Version vom 1. Juli 2009, 09:21 Uhr

VERSATILE WSPR BEACON for MOBILE and FIXED applications

MEPT = Manned Experimental Propagation Transmitter



It took me a couple of month - but now it's (almost) ready.

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

## 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

## MEPT - a WSPR beacon: Unterschied zwischen den Versionen

[Versionsgeschichte interaktiv durchsuchen](#)  
[Visuell Wikitext](#)

**Version vom 30. Juni 2009, 21:51 Uhr (Quelltext anzeigen)**  
[Oe1mcu](#) ([Diskussion](#) | [Beiträge](#))  
[← Zum vorherigen Versionsunterschied](#)

**Version vom 1. Juli 2009, 09:21 Uhr (Quelltext anzeigen)**  
[Oe1mcu](#) ([Diskussion](#) | [Beiträge](#))  
[Zum nächsten Versionsunterschied →](#)

|                                                                          |                                                                          |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>Zeile 4:</b>                                                          | <b>Zeile 4:</b>                                                          |
| <div>== VERSATILE WSPR BEACON for MOBILE and FIXED applications ==</div> | <div>== VERSATILE WSPR BEACON for MOBILE and FIXED applications ==</div> |
| <div></div>                                                              | <div></div>                                                              |
| <div>-</div>                                                             | <div>+ MEPT = Manned Experimental Propagation Transmitter</div>          |
| <div></div>                                                              |                                                                          |
| <div>-</div>                                                             |                                                                          |
| <div></div>                                                              |                                                                          |
| <div>-</div>                                                             |                                                                          |
| <div></div>                                                              |                                                                          |
| <div></div>                                                              |                                                                          |

### Version vom 1. Juli 2009, 09:21 Uhr

#### VERSATILE WSPR BEACON for MOBILE and FIXED applications

MEPT = Manned Experimental Propagation Transmitter



It took me a couple of month - but now it's (almost) ready.

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

## 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

## MEPT - a WSPR beacon: Unterschied zwischen den Versionen

[Versionsgeschichte interaktiv durchsuchen](#)  
[Visuell Wikitext](#)

**Version vom 30. Juni 2009, 21:51 Uhr (Quelltext anzeigen)**  
[Oe1mcu](#) ([Diskussion](#) | [Beiträge](#))  
[← Zum vorherigen Versionsunterschied](#)

**Version vom 1. Juli 2009, 09:21 Uhr (Quelltext anzeigen)**  
[Oe1mcu](#) ([Diskussion](#) | [Beiträge](#))  
[Zum nächsten Versionsunterschied →](#)

|                                                                          |                                                                          |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>Zeile 4:</b>                                                          | <b>Zeile 4:</b>                                                          |
| <div>== VERSATILE WSPR BEACON for MOBILE and FIXED applications ==</div> | <div>== VERSATILE WSPR BEACON for MOBILE and FIXED applications ==</div> |
| <div></div>                                                              | <div></div>                                                              |
| <div>–</div>                                                             | <div>+</div>                                                             |
| <div></div>                                                              | <div>MEPT = Manned Experimental Propagation Transmitter</div>            |
| <div>–</div>                                                             |                                                                          |
| <div></div>                                                              |                                                                          |
| <div>–</div>                                                             |                                                                          |
| <div></div>                                                              |                                                                          |
| <div></div>                                                              |                                                                          |
| <div></div>                                                              |                                                                          |

### Version vom 1. Juli 2009, 09:21 Uhr

#### VERSATILE WSPR BEACON for MOBILE and FIXED applications

MEPT = Manned Experimental Propagation Transmitter



It took me a couple of month - but now it's (almost) ready.

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

## 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