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OVI40 Short Specification

OVI40-SDR Components

The OVI40-SDR consists of the following components:

- UI Board
- Display und Touchscreen Module
- RF Board
- Housing

UI Board



OVI40 UI and display board (photo DF9EH)

UI board table of features:

| | |
|-----------------------|--|
| PCB Dimensions: | 186mm x 66mm |
| Processor: | STM32F76x (216 MHz Clock), optional STM32H743ZIT6 (400 MHz Clock, pin compatible with STM32F76x) |
| Audio Codec: | 2 x WM8731 @ 96KHz (UHSDR currently using 48 kHz only), separate IQ and Audio (TX and RX possible simultaneously, RF board needs to support this) |
| Display: | 3.5,, 480x320 as default, 3.2" and 2.8,, supported |
| LCD Interface: | parallel and SPI supported, parallel used as default |
| Internal memory: | SPI-Flash (Option), SPI-RAM (Option) |
| External memory: | microSD card |
| Realtime clock: | integrated Realtime Clock (RTC) part of STM32 MCU, CR2032 Backup Battery |
| LEDs: | 3 |
| External connections: | Mini-USB Type B, USB-Host (USB-A), 3.5mm connector for microphone and PTT, 3.5mm connector for analog input, 3.5mm connector for analog output (line-out is independant from loudspeaker), 3.5mm connector for headset |
| Internal connections: | 30pin connector (mCHF RF Board compatible), 6pin GPIO, 25pin connector (GPIOs, SPI, I2C), ST-Link V2 compatible Debug connector, Debug output, 2 x 4 Pin internal USB connections |

| | |
|------------------|---|
| Keys: | 18 separate keys |
| Rotary encoders: | 4 rotary encoders with integrated key function |
| Audio output: | Stereo, 2 x 3W at 2 x 4 Ohm with less than 1% THD+N |

The 30pin header J1 is downward compatible with the [mcHF](#) RF boards up to and including RF board V0.6. OVI40 UI and mcHF RF board can be used together. An improved OVI40 RF Board is in development.

Display Board

Note: ToDo Photo

| | |
|----------------|--------------------------|
| Displaygröße: | 3.5 inch |
| Display Typ | TN |
| Auflösung: | 480 x 320 |
| Kontroller: | ILI9846 (und kompatibel) |
| Bedienung: | Touchscreen |
| Schnittstelle: | SPI und Parallel |

Ebenfalls benutzt werden können 2.8 inch oder 3.2 inch 320 x 240 Touchscreen Displays mit IL9325 (oder kompatibel) Kontroller.

RF Board

Note: ToDo Photo und Datentabelle

Gehäuse

Note: ToDo Gehäusetext und Daten

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