

# HAM radio controller for the Raspberry PI

## serial interfaces

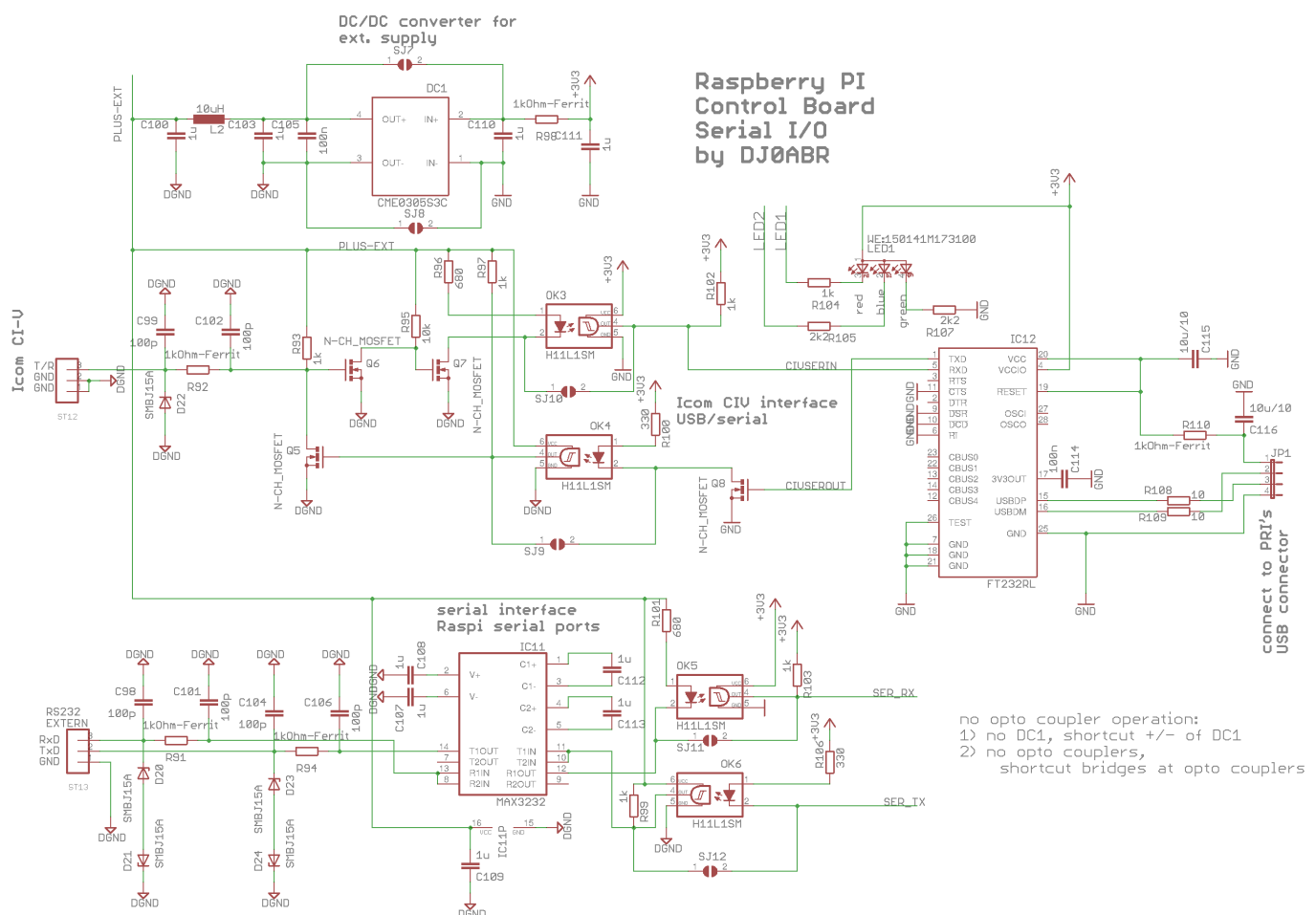
on the PCB are

1x optocoupler serial interface RS232 (+/- 12V level) 1x Icom CIV Cat interface

The optocoupler serial interface is on the internal serial interface of the Raspi. It is additionally protected with overvoltage diodes and is suitable for all applications, especially with long cables that can carry overvoltage.

The Icom-CIV interface uses a USB / serial converter that is already provided on the board. If it is to be used, a connection (4 wires) must be made to a USB connector on the Raspi.

As usual, further serial interfaces can be provided via normal USB / serial converter cables.



## Pin assignment:

see labeling in the circuit diagram.

JP1: Connection for a very short USB cable

Pin1 ... + USB 5V

Pin2 + 3 ... USB signal lines

Pin4 ... GND

If no optocouplers are needed, do not equip them. Instead, close the solder bridges below the optocouplers and at the dc/dc converter DC1, which is also not required.

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