

# HAM Radio Controller for the Raspberry PI

## all inputs and outputs

all inputs/outputs are protected against RF interference by PI filters

### Digital outputs

2 pcs. high current output (10A) with check diodes (open collector)

14 pcs. Universal outputs with optional

- Open Collector
- Pullup 3,3V
- Pullup 5,0V
- Pullup U-supply

### Digital inputs

- 4 pcs. Inputs especially for pushbuttons or encoders
- 8 pcs. universal inputs 0 .. 3,3V or higher voltages selectable by resistor
- 2 pcs. opto coupled inputs

### Analog inputs

- 4 pcs. Universal ADC inputs, 12 bit resolution 0 - 3,3V
- 2 pcs. Inputs for NTC (temperature measurement)
- 1 pcs. current measuring input using a shunt in the positive supply line
- 1 pcs. voltage measuring input, maximum voltage configurable by resistor divider

### Serial interfaces

- RS232 protected with optocoupler and therefore also suitable for long external lines
- Icom CIV interface protected by optocoupler and therefore also suitable for long external lines
- any other serial interfaces by additional USB/serial converter

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