HAM radio controller for the Raspberry PI

I2C addresses

In order to make the board as independent as possible from the computer used, all ports (analog and digital I / O) are controlled via i2c. Since practically every SBC, Arduino, controller can operate the i2c bus, it can be used universally.

I2C addresses and port assignment of the MCP23017 Port Expander:

Adresse: 0x40 (Bit0=R/W)
Outputs Ports 0..15

Adresse: 0x42 (Bit0=R/W)
Input Ports 0..15 (14,15 not used)

Allocation of the ADCs on the MAX11615EEET:

Address: 0x66 (Bit0 = R / W)
ADC 0: ADCUNIV1
ADC 1: ADCUNIV2
ADC 2: ADCUNIV3
ADC 3: ADCUNIV4
ADC 4: ADCTEMP1
ADC 5: ADCTEMP2
ADC 6: current measurement
ADC 7: voltage measurement