

Protocol on P/IO: see
<https://github.com/i-solder/i-con>

250000baud, 8N1

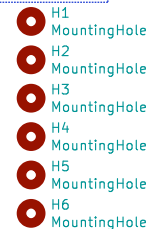
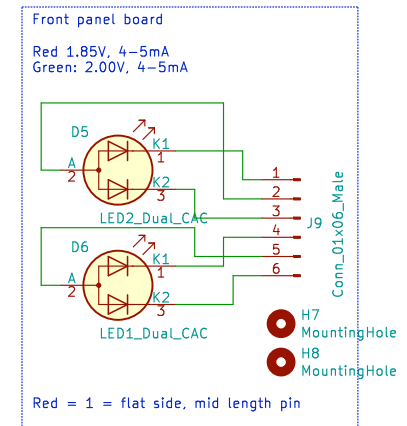
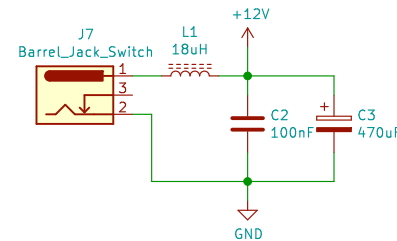
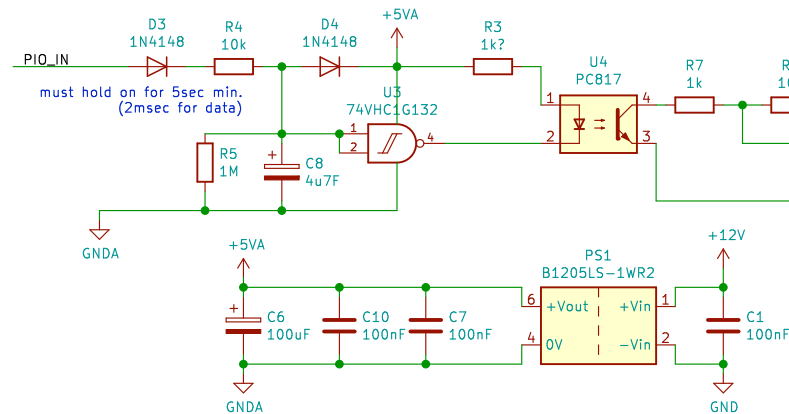
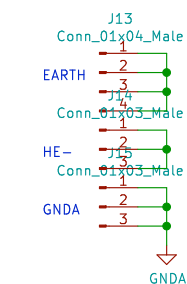
query = 400us
 time to reply = 250us
 reply = 520us
 hard pull up 100 ohm seems OK
 soft pull up: probably between 500 and 2k
 normal hard pull up high level = 4.7v
 normal comms high level = 4V
 normal comms low level = 380mV

so:
 * period 50ms, hard pull up during rest
 * hard pull up off
 * send req
 * hard pull up on
 * wait 100us
 * hard pull up off
 * wait reply, max 1ms
 * after timeout or reply: hard pull up on

arduino digitalRead/write pins:
 0 = PA4 (chip pin 2)
 1 = PA5 (chip pin 3)
 2 = PA6 (chip pin 4)
 3 = PA7 (chip pin 5)
 4 = PB3 (chip pin 6)
 5 = PB2 (chip pin 7)
 6 = PB1 (chip pin 8)
 7 = PB0 (chip pin 9)
 8 = PA1 (chip pin 11)
 9 = PA2 (chip pin 12)
 10 = PA3 (chip pin 13)

Attiny 214 reserved pins:
 PA0: UPDI
 PB2, PB3: Tx, Rx

<https://github.com/SpenceKonde/megaTinyCore>
<https://github.com/EITangas/jtag2updi>
<https://github.com/mraardvark/pyupdi>
https://npk-stn.ru/2019/07/19/simple_programming_attiny414_via_updi/?lang=en



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