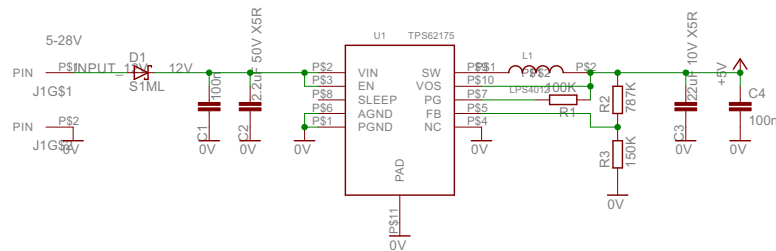


Voltage converters to 5V



CPU

@16MHz & BRGH=1 & 16

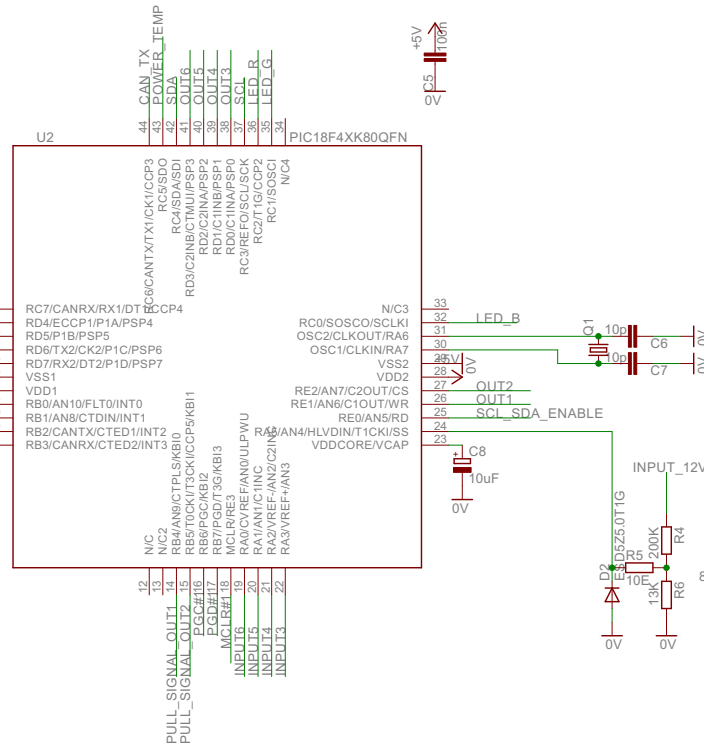
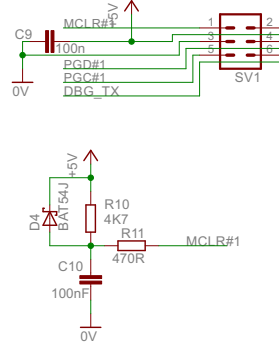
115200bps = 34 = 114286
57600 = 68 = 57971
38400 = 103 = 38462
19200 = 207 = 19231
9600 = 416 = 9592

INPUT1-6
OUT1-6
SIGNAL_OUT1-2
POWER_TEMP
EXTERNAL_POWER
OVERCURRENT
LED_RGB
SDA_SCL_ENABLE
PULL_SIGNAL_OUT1-2

Debug UART

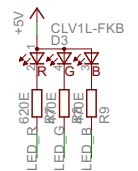
CAN_RX
EXTERNAL_POWER
OVERCURRENT
DBG_TX
DBG_RX
SIGNAL_OUT1
SIGNAL_OUT2
INPUT1
INPUT2

Program connector



$13K/(200K+13K) = 16.384$
 $16.384 * 5V = 81.92V \text{ max}$
 $81.92 / 12bit = 0.02V = \text{resolution}$

leds



Project : OpenMotics
Designer : Niko Vinken

TITLE: OMHBN_3_1

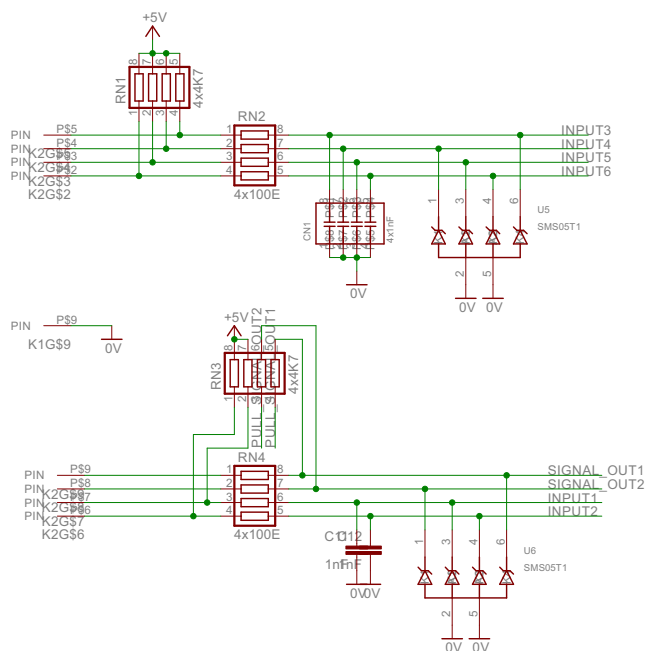
Document Number:

REV:
1.0

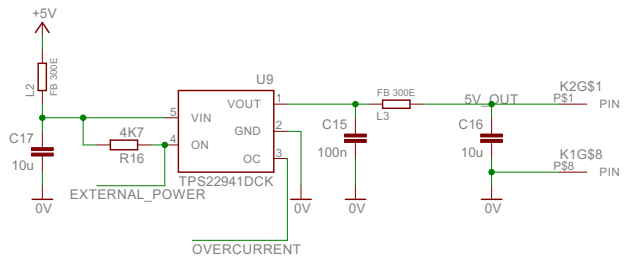
Date: 2016-07-19 09:52:27

Sheet: 1/2

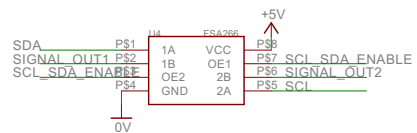
input protection



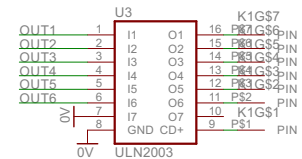
External power with currentlimit 40mA max



sensor output selection

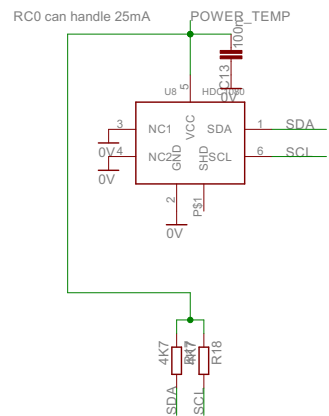


LED output control

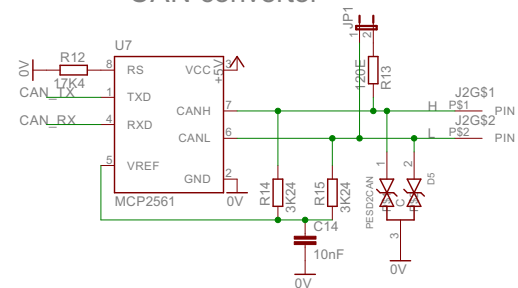


Humidity and temp sensor

HDC1080 address: 1000-000X



CAN convertor



TITLE: OMHBN_3_1

Document Number:

REV:

Date: 2016-07-19 09:52:27

Sheet: 2/2