

**KICAD specific**

+5V PWR\_FLAG PWR\_FLAG

**Optional LED**

SCK 1k R1 D1 LED

**Reset with a switch**

+5V 10k R2 RESET SW\_PUSH SW1 0.1uF C4 DTR

**IC1**

VCC (PCINT0/CLK0/ICP1)PB0

AVCC (PCINT1/OC1A)PB1

AREF (PCINT2/OC1B/SS)PB2

(PCINT3/OC2A/MOSI)PB3

(PCINT4/MISO)PB4

(PCINT5/SCK)PB5

(PCINT6/XTAL1/TOSC1)PB6

(PCINT7/XTAL2/TOSC2)PB7

(PCINT8/ADC0)PC0

(PCINT9/ADC1)PC1

(PCINT10/ADC2)PC2

(PCINT11/ADC3)PC3

(PCINT12/SDA/ADC4)PC4

(PCINT14/SCL/ADC5)PC5

(PCINT14/RESET)PC6

(PCINT16/RXD)PD0

(PCINT17/TXD)PD1

(PCINT18/INT0)PD2

(PCINT19/OC2B/INT1)PD3

(PCINT20/XCK/T0)PD4

(PCINT21/OC0B/T1)PD5

(PCINT22/OC0A/AIN0)PD6

(PCINT23/AIN1)PD7

ATMEGA328P-MM

footprints:QFN-28-4x4mm,red\_mask

**LogicShifterI2C**

**MotorIC**

**2.4ghzTranciever**

**StatLEDS**

For the future version

LogicShifterI2C.sch

MotorIC.sch

2.4ghzTranciever.sch

StatLEDS.sch

Vreg\_3v3

Booster\_5V

MPU6050

FTDI

MISC\_CONN

Vreg\_3v3.sch

Booster\_5V.sch

MPU6050.sch

FTDI.sch

MISC.sch

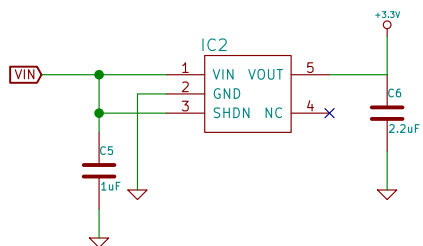
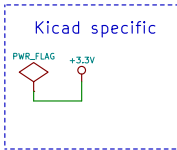
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**Title: QMBT**

Size: A4 Date: Friday, January 02, 2015 Rev: 1.0

KiCad E.D.A. kicad (2014-12-04 BZR 5312)-product Id: 1/10

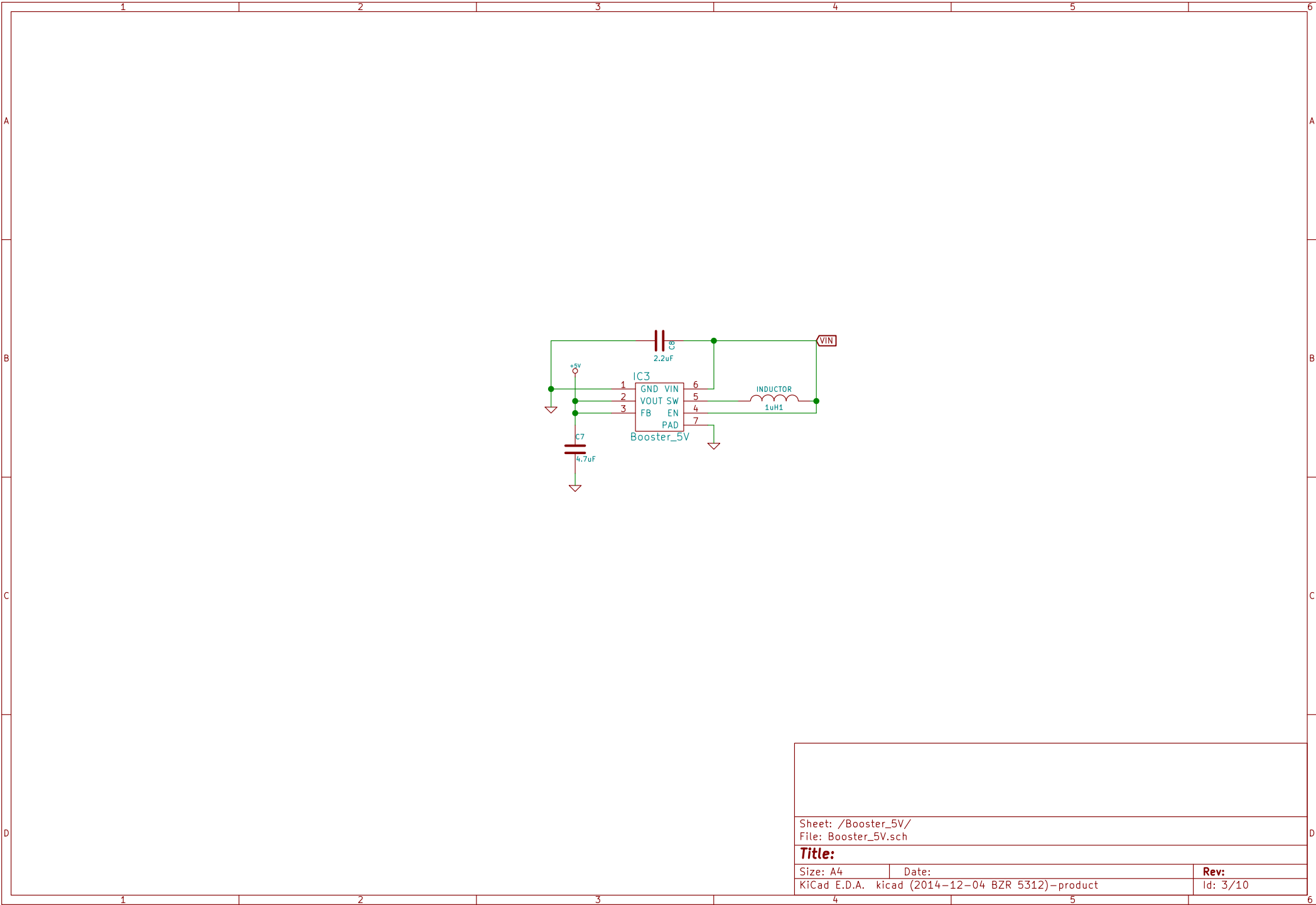


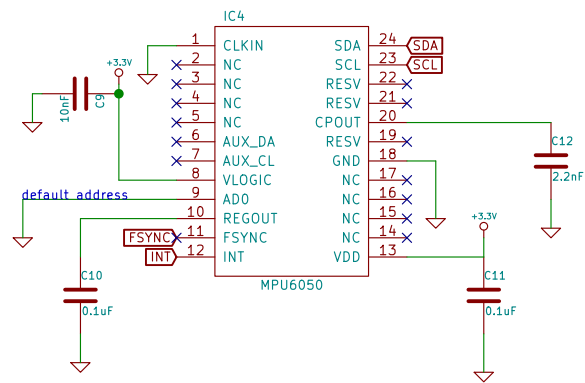
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Size: A4 Date:  
KiCad E.D.A. kicad (2014-12-04 BZR 5312)-product

**Rev:**  
Id: 2/10



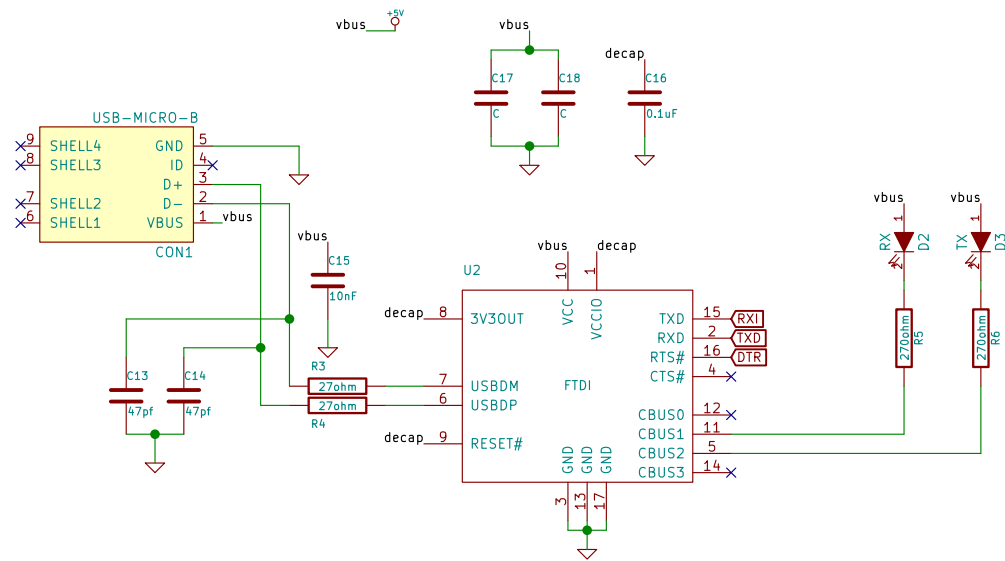
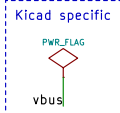


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Rev:
Id: 4/10

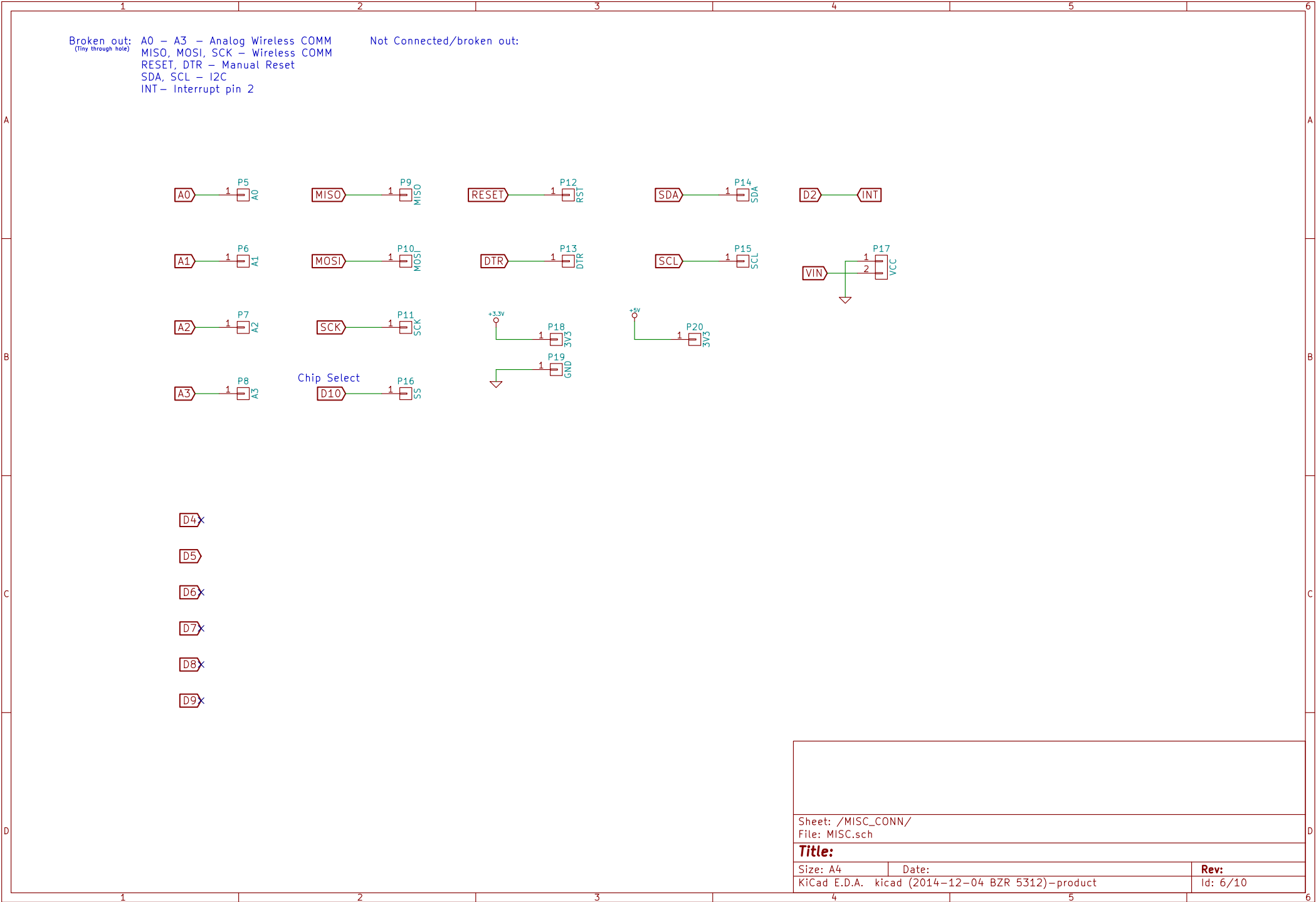


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**Rev:**  
Id: 5/10



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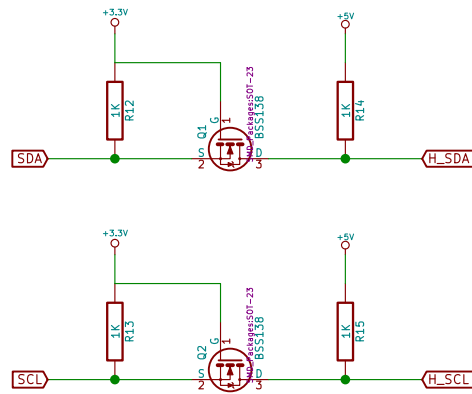
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KiCad E.D.A. kicad (2014-12-04 BZR 5312)-product

Rev:

Id: 6/10



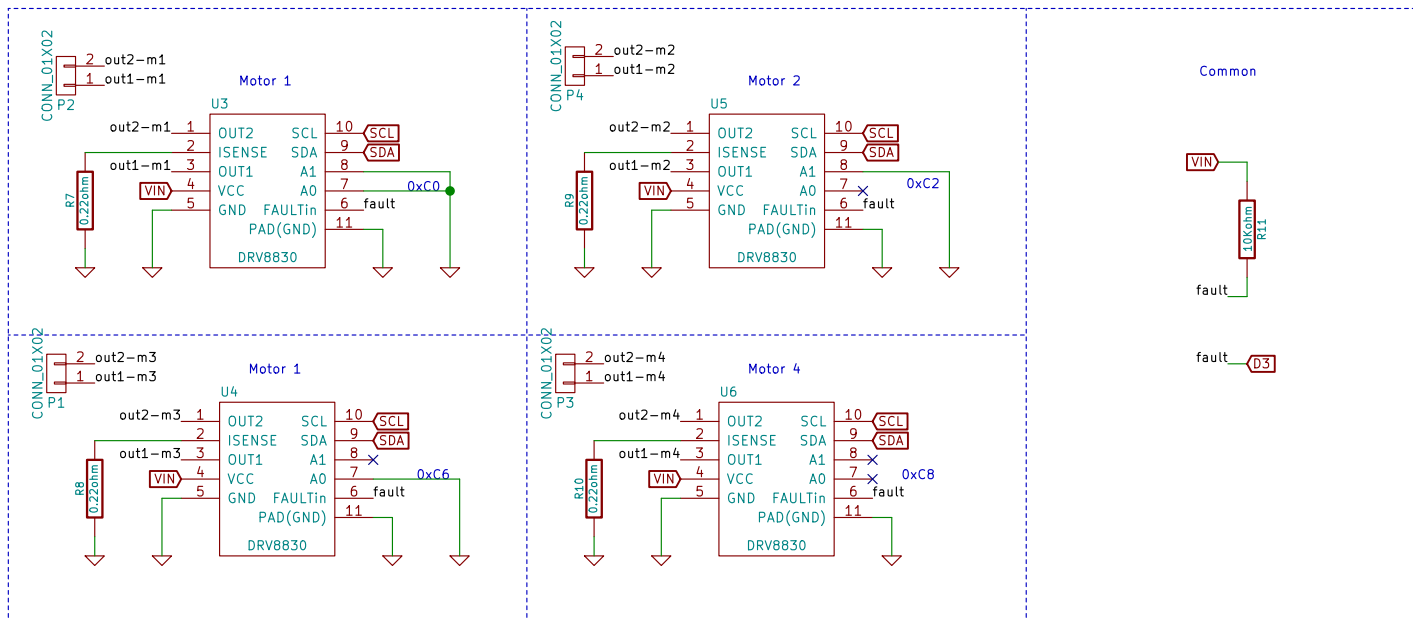
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This includes I2C pullups

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KiCad E.D.A. kicad (2014-12-04 BZR 5312)-product

**Rev:**  
Id: 7/10



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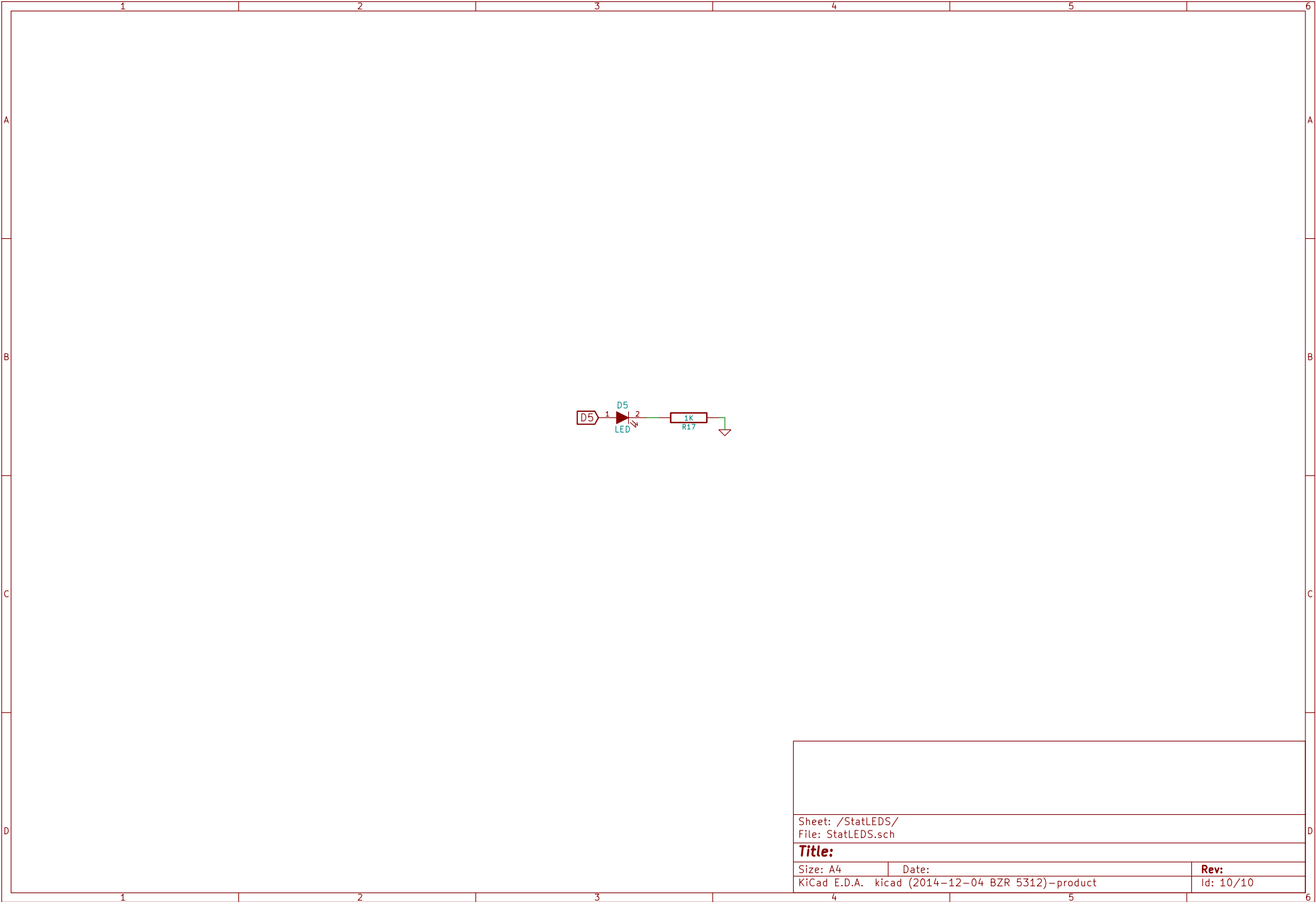
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**Rev:**



	1	2	3	4	5	6
A						
B						
C						
D						
	1	2	3	4	5	6

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KiCad E.D.A.    kicad (2014-12-04 BZR 5312)-product		Id: 9/10



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KiCad E.D.A. kicad (2014-12-04 BZR 5312)-product		Id: 10/10