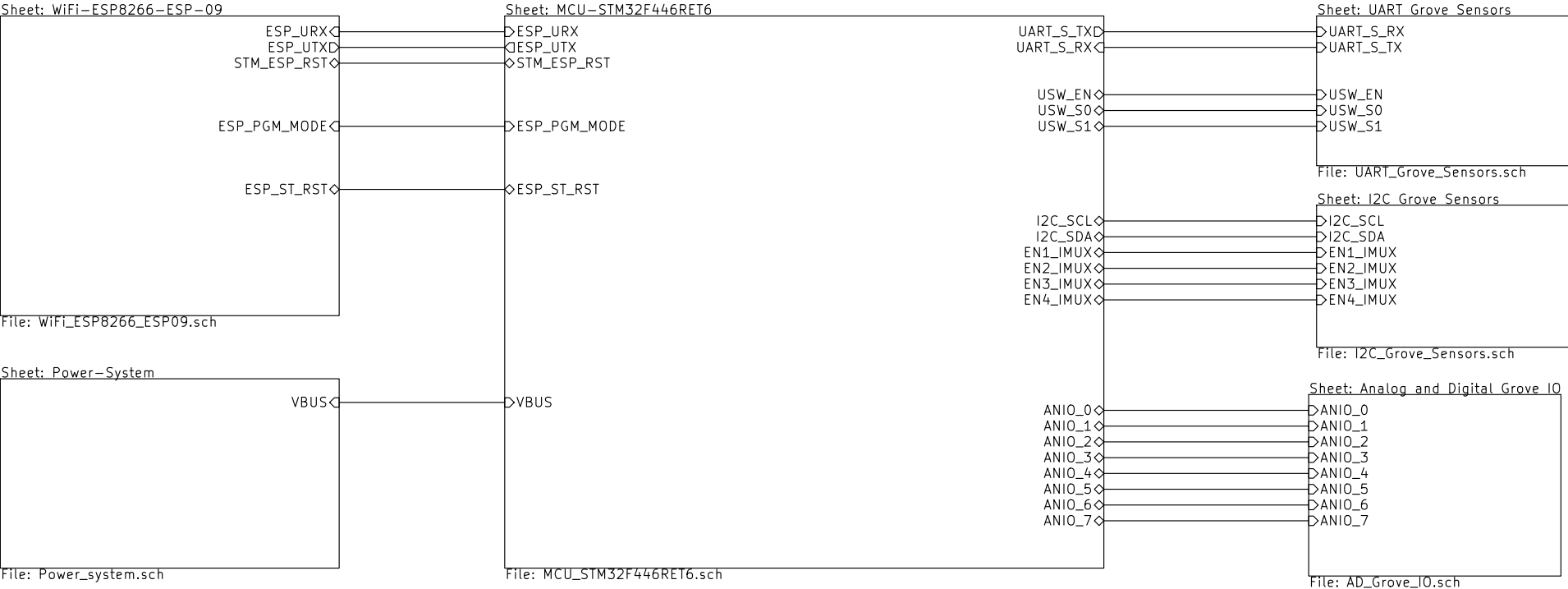


SunLeaf 0.2a System Overview



Designed by Adam Vadala-Roth

GhostPCB

Sheet: /

File: SunLeaf_V2.sch

Title: SunLeaf 0.2a

Size: A4

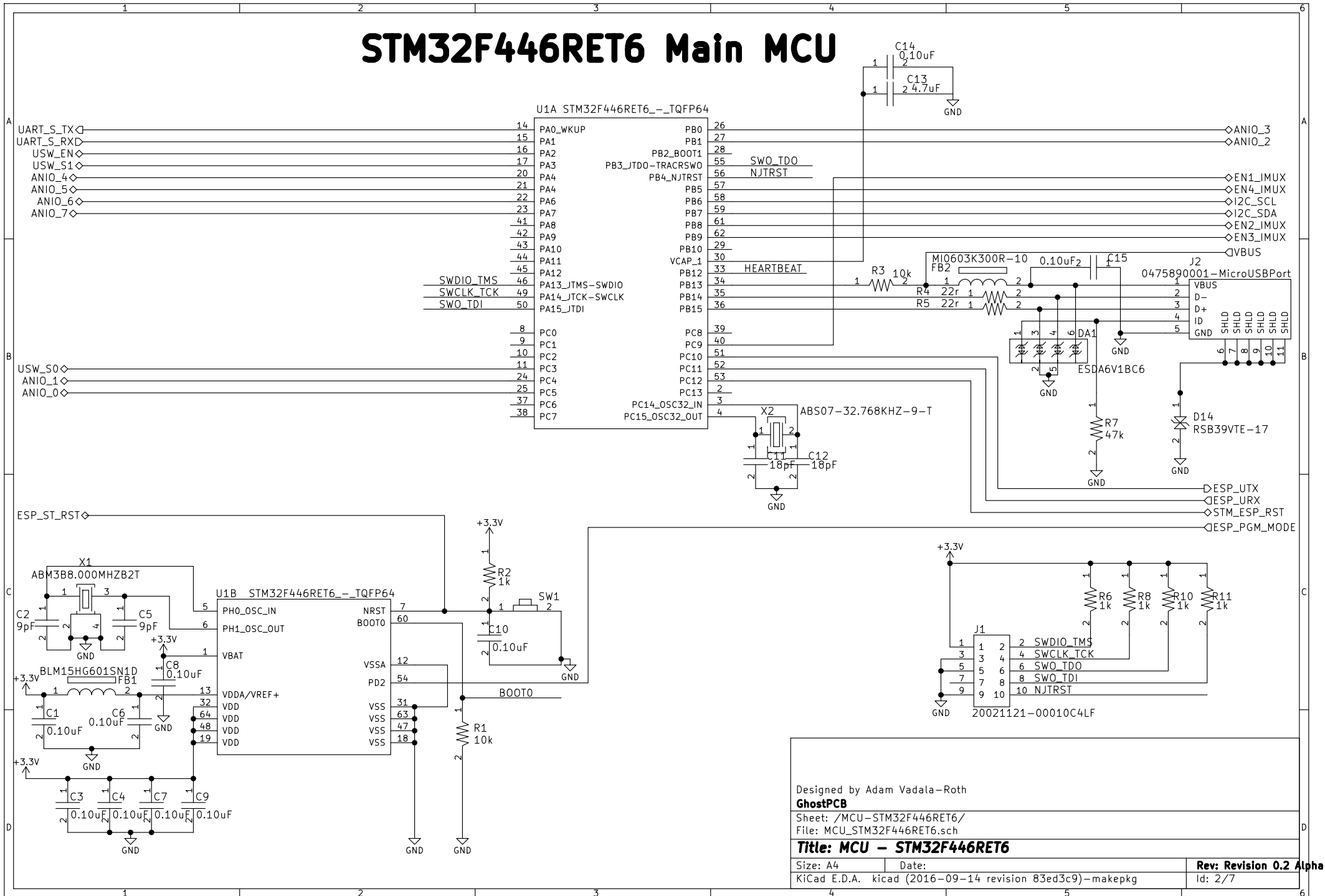
Date:

KiCad E.D.A. kicad (2016-09-14 revision 83ed3c9)-makepkg

Rev: Revision 0.2 Alpha

Id: 1/7

STM32F446RET6 Main MCU



Designed by Adam Vadala-Roth

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Sheet: /MCU-STM32F446RET6/

File: MCU_STM32F446RET6.sch

Title: MCU - STM32F446RET6

Size: A4

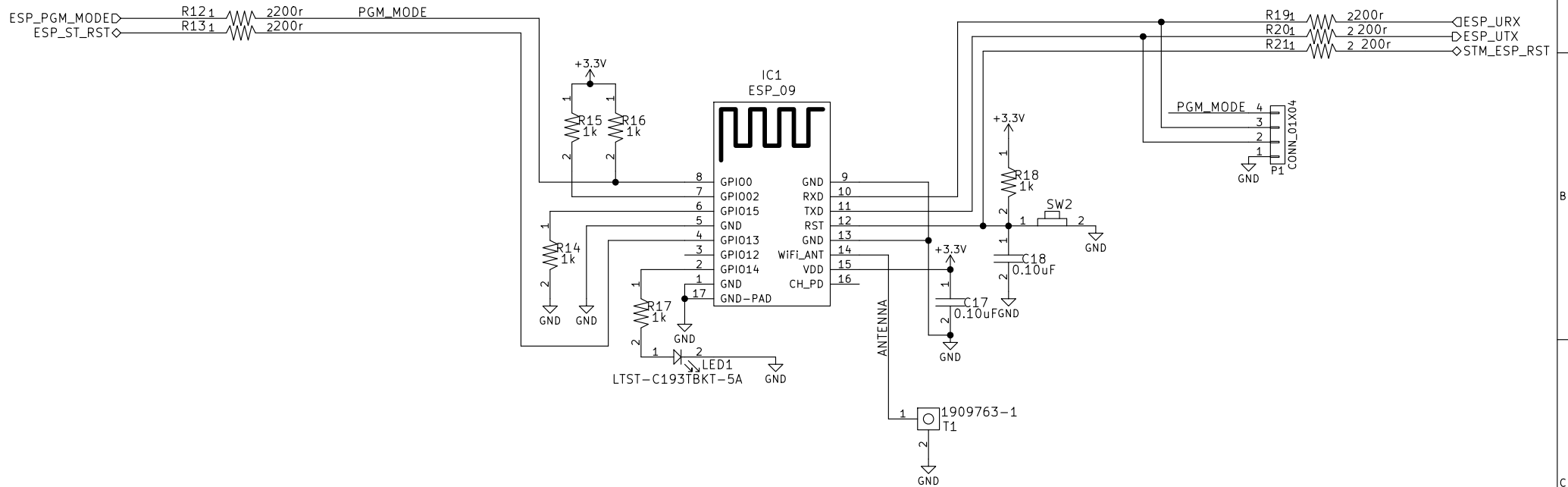
Date:

KiCad E.D.A. kicad (2016-09-14 revision 83ed3c9)-makepkg

Rev: Revision 0.2 Alpha

Id: 2/7

ESP-09 ESP8266 WiFi RF Module



Designed by Adam Vadala-Roth

GhostPCB

Sheet: /WiFi-ESP8266-ESP-09/

File: WiFi_ESP8266_ESP09.sch

Title: WiFi ESP8266 ESP-09 Module

Size: A4

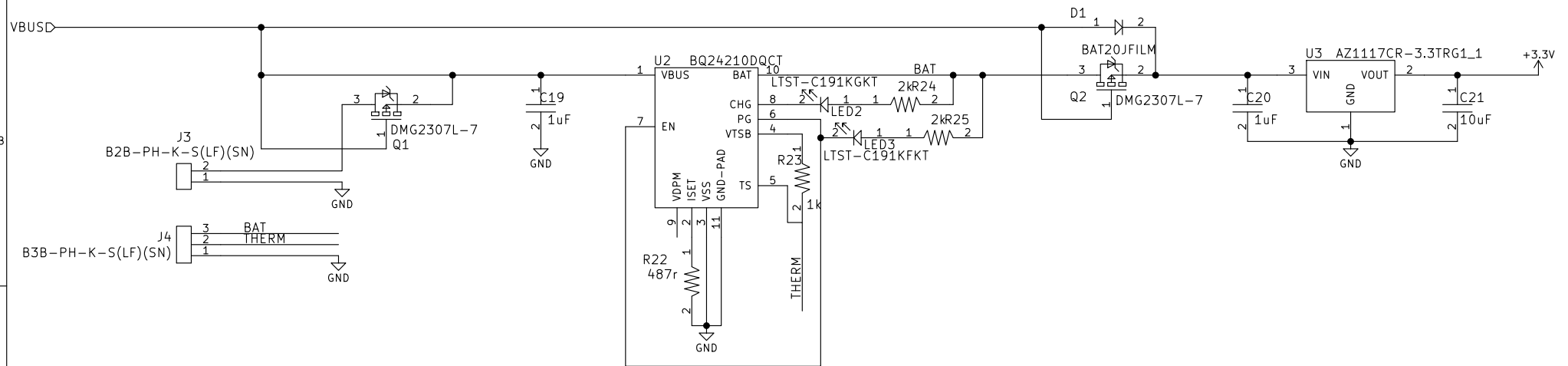
Date:

KiCad E.D.A. kicad (2016-09-14 revision 83ed3c9)-makepkg

Rev: Revision 0.2 Alpha

Id: 3/7

Battery Charge Controller and Power Supply



Designed by Adam Vadala-Roth

GhostPCB

Sheet: /Power-System/

File: Power_system.sch

Title: Power System - LDO & Solar Battery Charger

Size: A4

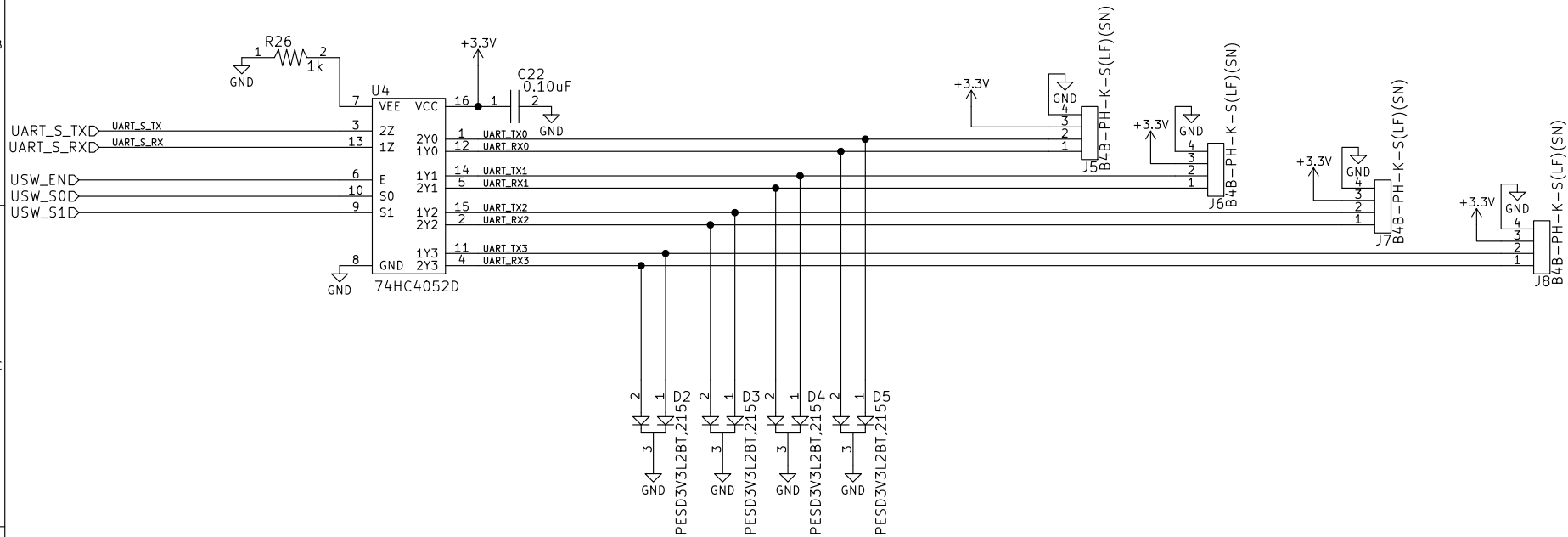
Date:

Rev: Revision 0.2 Alpha

KiCad E.D.A. kicad (2016-09-14 revision 83ed3c9)-makepkg

Id: 4/7

UART Grove Sensors



Designed by Adam Vadala-Roth

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Sheet: /UART Grove Sensors/

File: UART_Grove_Sensors.sch

Title: UART Grove Sensor Ports

Size: A4

Date:

KiCad E.D.A. kicad (2016-09-14 revision 83ed3c9)-makepkg

Rev: Revision 0.2 Alpha

Id: 5/7

I2C Grove Sensors

The schematic diagram illustrates the connection of a PCA9518DBQR multiplexer (U5) to four 1-Wire digital temperature sensors (DS18B20) via I2C and 1-Wire protocols. The multiplexer is powered by +3.3V and GND, with pull-up resistors (R35, R36) on its I2C lines. The multiplexer's I2C lines (SDA1, SCL1, SDA2, SCL2, SDA3, SCL3, SDA4, SCL4) are connected to the I2C lines of the four sensors. The multiplexer's 1-Wire lines (EN1, EN2, EN3, EN4) are connected to the 1-Wire lines of the four sensors. The multiplexer's VDD and VSS pins are connected to +3.3V and GND, respectively. The multiplexer's I2C lines are also connected to the I2C lines of the four sensors. The multiplexer's 1-Wire lines are also connected to the 1-Wire lines of the four sensors. The multiplexer's I2C lines are also connected to the I2C lines of the four sensors. The multiplexer's 1-Wire lines are also connected to the 1-Wire lines of the four sensors.

Designed by Adam Vadala-Roth
GhostPCB
 Sheet: /I2C Grove Sensors/
 File: I2C_Grove_Sensors.sch

Title: I2C Grove Sensor Ports		
Size: A4	Date:	Rev: Revision 0.2 A
KiCad E.D.A. kicad (2016-09-14 revision 83ed3c9)-makepkg		Id: 6/7

Id: 6/7

