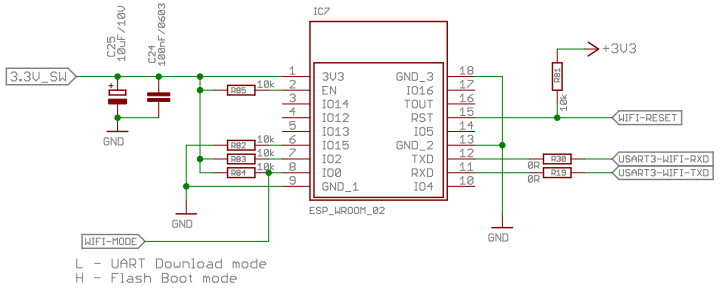
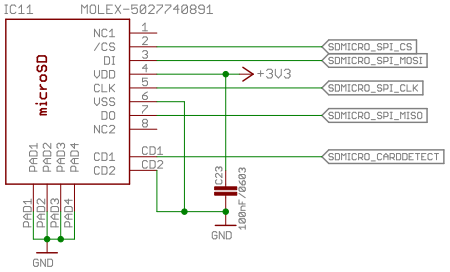
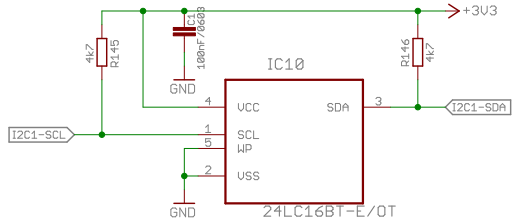
WIFI MODULE ESP_WROOM_02



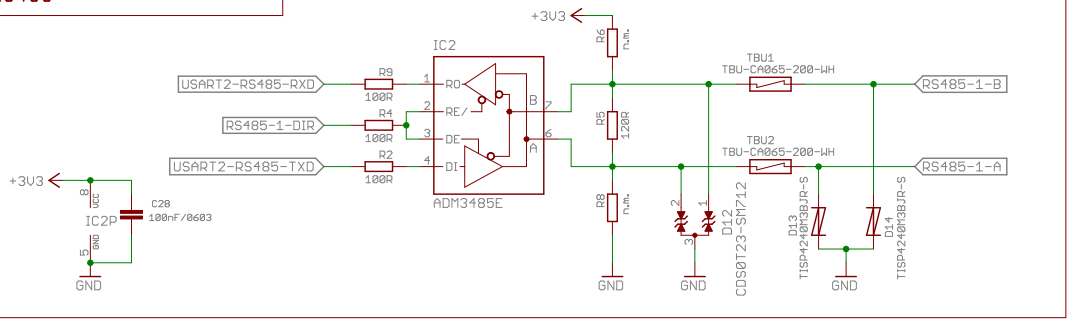
microSD



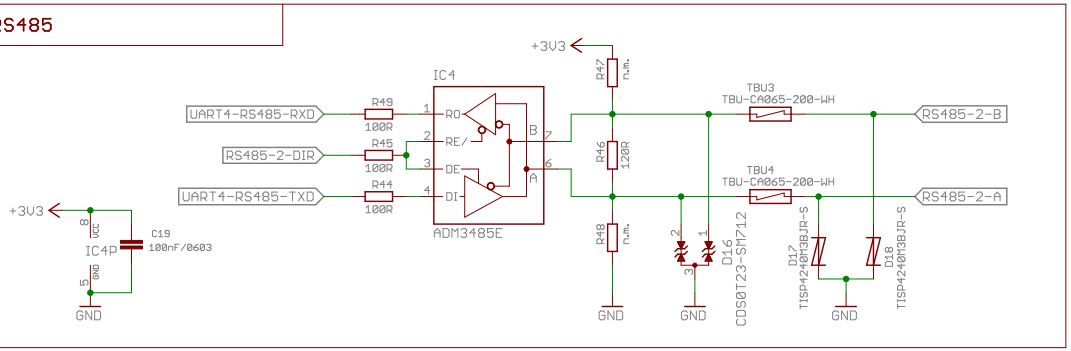
EEPROM



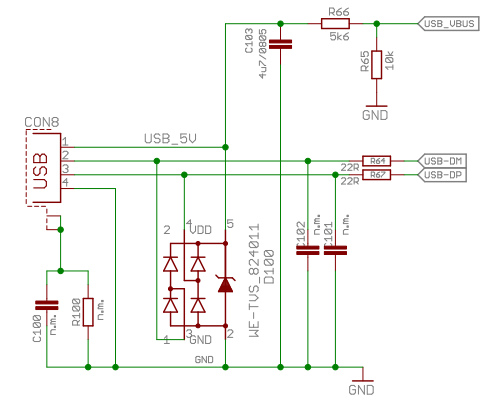
RS485



RS485

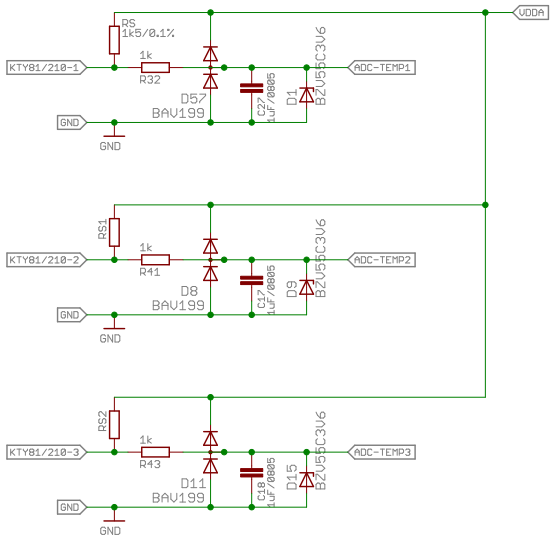


Port USB2.0 (Device)

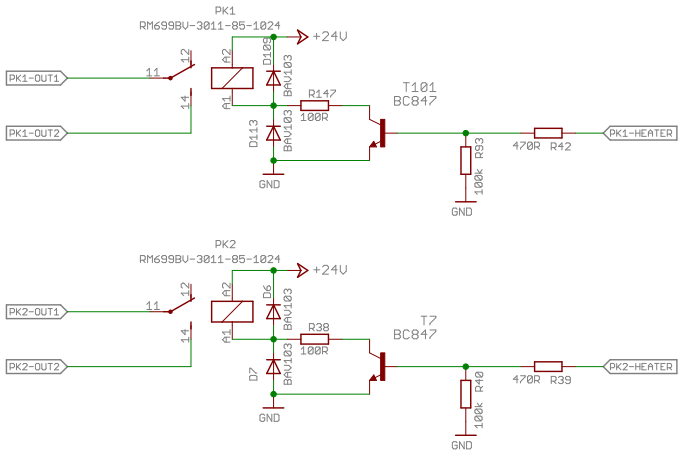


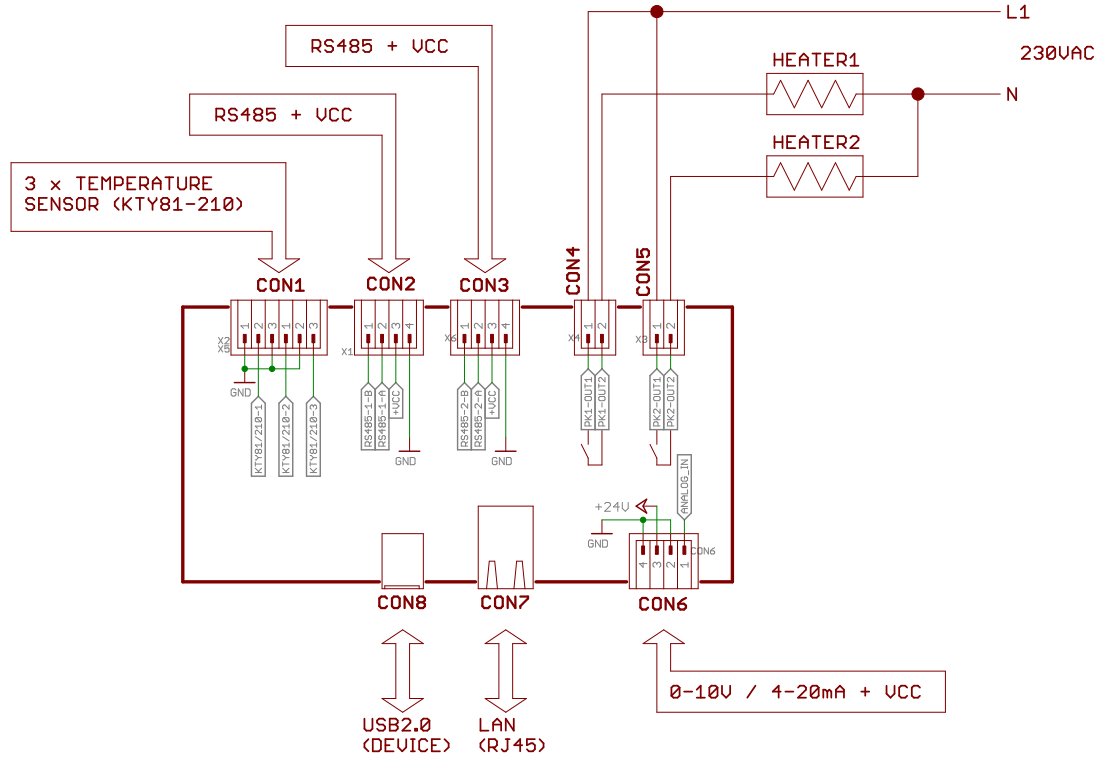
ISYS		
Project name: ISWiFi		
Description:		REV: 1
Date: 20-03-2017	R. Smaga	

ANALOG TEMPERAT. SENSOR

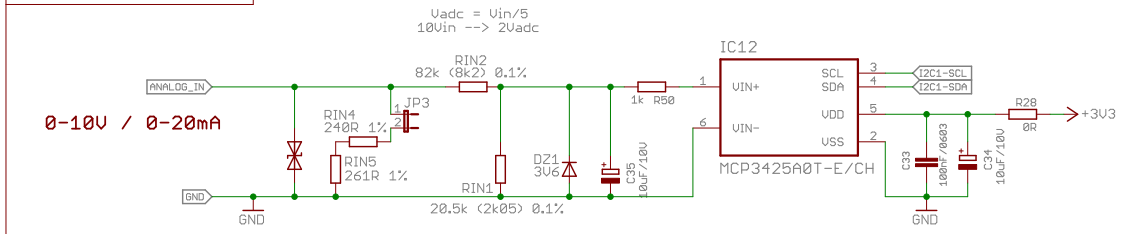


Heater on/off switch

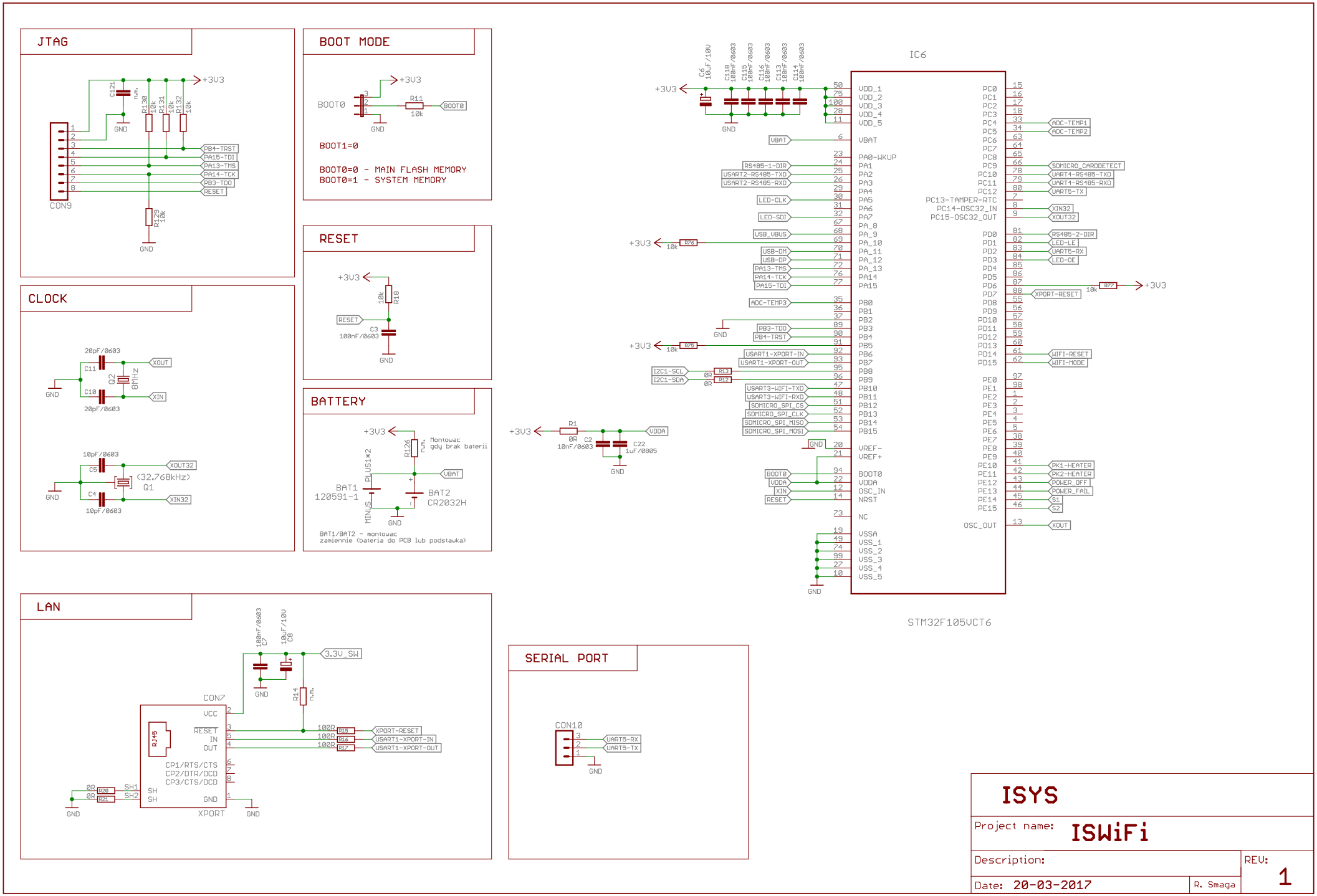




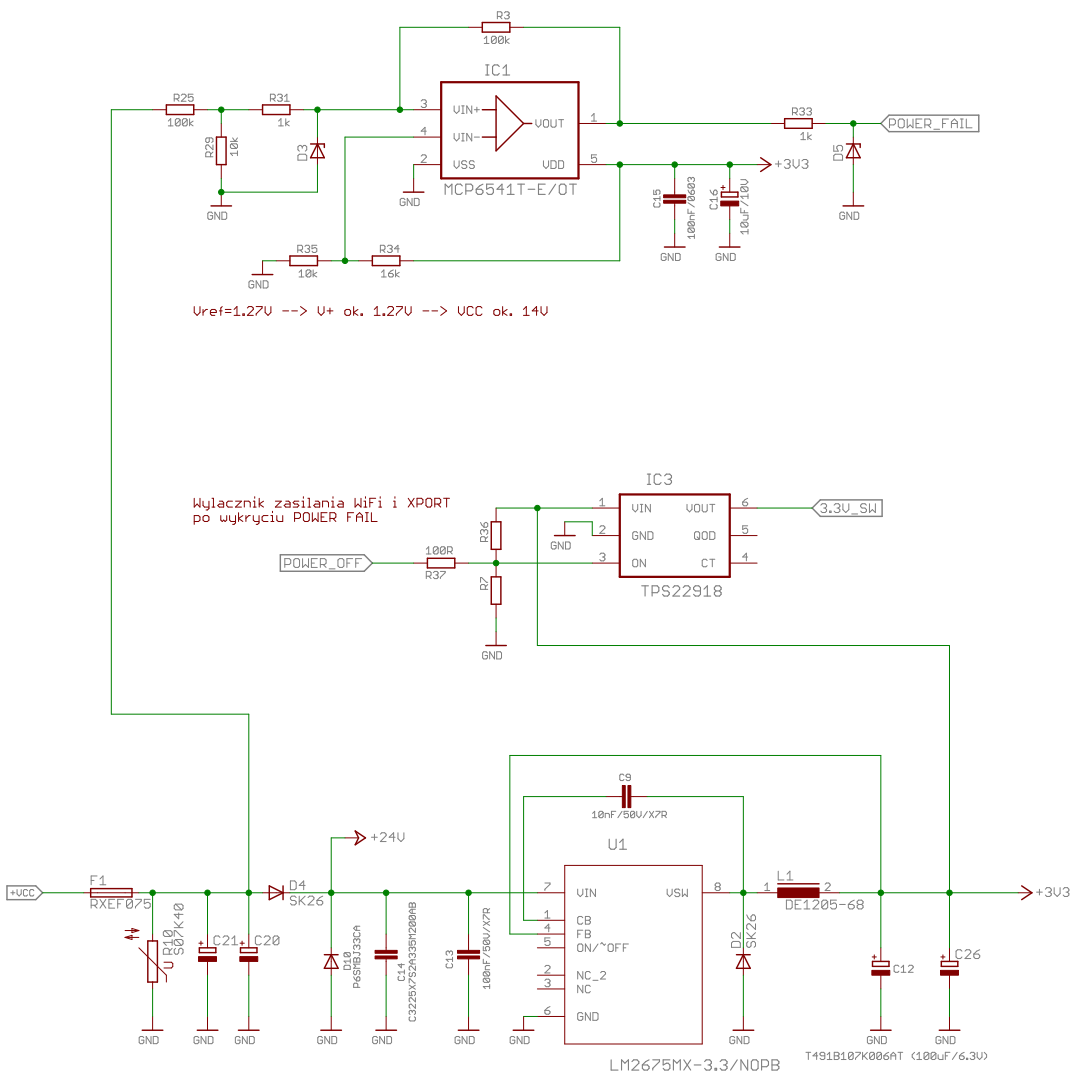
Analog input



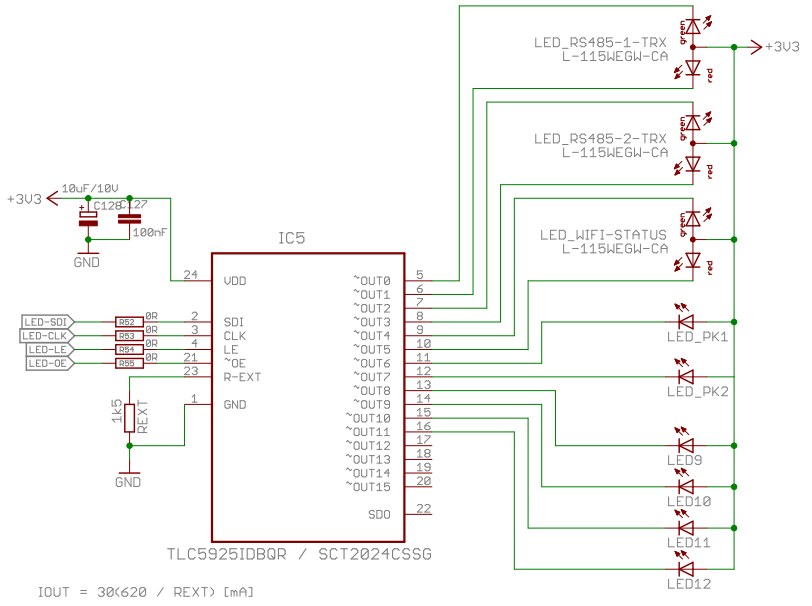
ISYS		
Project name: ISWiFi		
Description:		REV: 1
Date: 20-03-2017	R. Smaga	

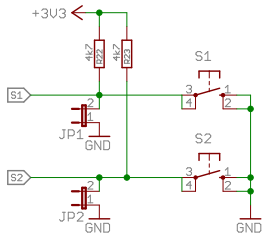

JTAG
+3V3
C121 n.m.
R130 10k
R131 10k
R132 10k
GND
CON9
PB4-TRST
PA15-TDI
PA13-TMS
PA14-TCK
PB3-TDO
RESET
R129 10k
BOOT MODE
BOOT0
R11 10k
BOOT1=0
BOOT0=0 - MAIN FLASH MEMORY
BOOT0=1 - SYSTEM MEMORY
RESET
R18 10k
C3 100nF/0603
CLOCK
C11 20pF/0603
C10 20pF/0603
Q2 8MHz
XOUT
XIN
C5 10pF/0603
C4 10pF/0603
Q1 (32.768kHz)
XOUT32
XIN32
BATTERY
R126 n.m.
Montowac gdy brak baterii
PLUS1*2
MINUS1*2
BAT1 120591-1
BAT2 CR2032H
VBAT
BAT1/BAT2 - montowac zamiennie (bateria do PCB lub podstawka)
IC6
STM32F105VCT6
VDD_1
VDD_2
VDD_3
VDD_4
VDD_5
VBAT
PA0-WKUP
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA_8
PA_9
PA_10
PA_11
PA_12
PA_13
PA14
PA15
PB0
PB1
PB2
PB3
PB4
PB5
PB6
PB7
PB8
PB9
PB10
PB11
PB12
PB13
PB14
PB15
VREF-
VREF+
BOOT0
VDDA
OSC_IN
NRST
NC
VSSA
VSS_1
VSS_2
VSS_3
VSS_4
VSS_5
PC0
PC1
PC2
PC3
PC4
PC5
PC6
PC7
PC8
PC9
PC10
PC11
PC12
PC13-TAMPER-RTC
PC14-OSC32_IN
PC15-OSC32_OUT
PD0
PD1
PD2
PD3
PD4
PD5
PD6
PD7
PD8
PD9
PD10
PD11
PD12
PD13
PD14
PD15
PE0
PE1
PE2
PE3
PE4
PE5
PE6
PE7
PE8
PE9
PE10
PE11
PE12
PE13
PE14
PE15
OSC_OUT
RS485-1-DIR
USART2-RS485-TXD
USART2-RS485-RXD
LED-CLK
LED-SDI
USB_VBUS
USB-DM
USB-DP
PA13-TMS
PA14-TCK
PA15-TDI
ADC-TEMP3
PB3-TDO
PB4-TRST
USART1-XPORT-IN
USART1-XPORT-OUT
I2C1-SCL
I2C1-SDA
USART3-WIFI-TXD
USART3-WIFI-RXD
SDMICRO_SPI_CS
SDMICRO_SPI_CLK
SDMICRO_SPI_MISO
SDMICRO_SPI_MOSI
ADC-TEMP1
ADC-TEMP2
SDMICRO_CARDDETECT
UART4-RS485-TXD
UART4-RS485-RXD
UART5-TX
XIN32
XOUT32
RS485-2-DIR
LED-LE
UART5-RX
LED-OE
XPORT-RESET
WIFI-RESET
WIFI-MODE
PK1-HEATER
PK2-HEATER
POWER_OFF
POWER_FAIL
S1
S2
XOUT
LAN
CON7
RJ45
VCC
RESET
IN
OUT
CP1/RTS/CTS
CP2/DTR/DCD
CP3/CTS/DCD
SH
GND
XPORT
3.3V_SW
R14 n.m.
SERIAL PORT
CON10
UART5-RX
UART5-TX
ISYS
Project name: ISWiFi
Description:
Date: 20-03-2017
R. Smaga
REV: 1

3.3V POWER SUPPLY

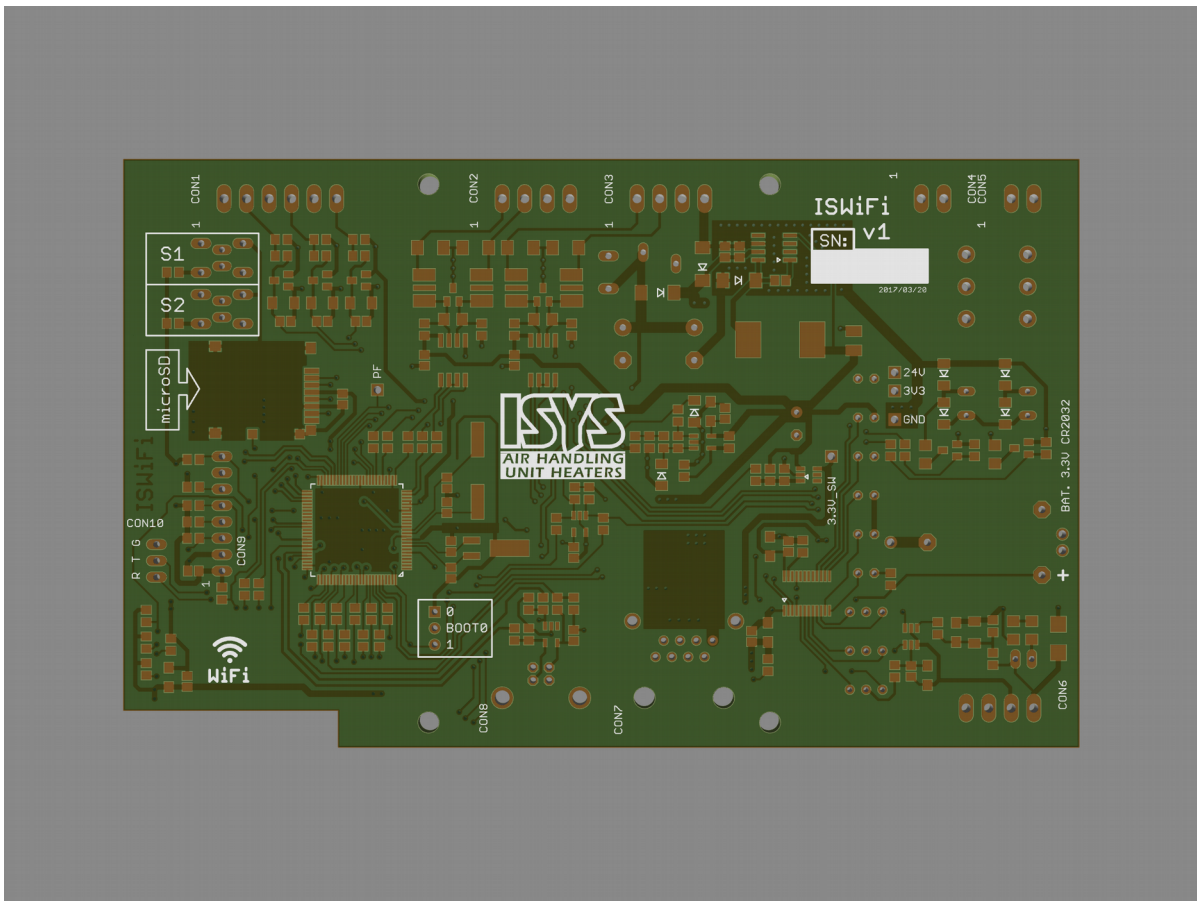


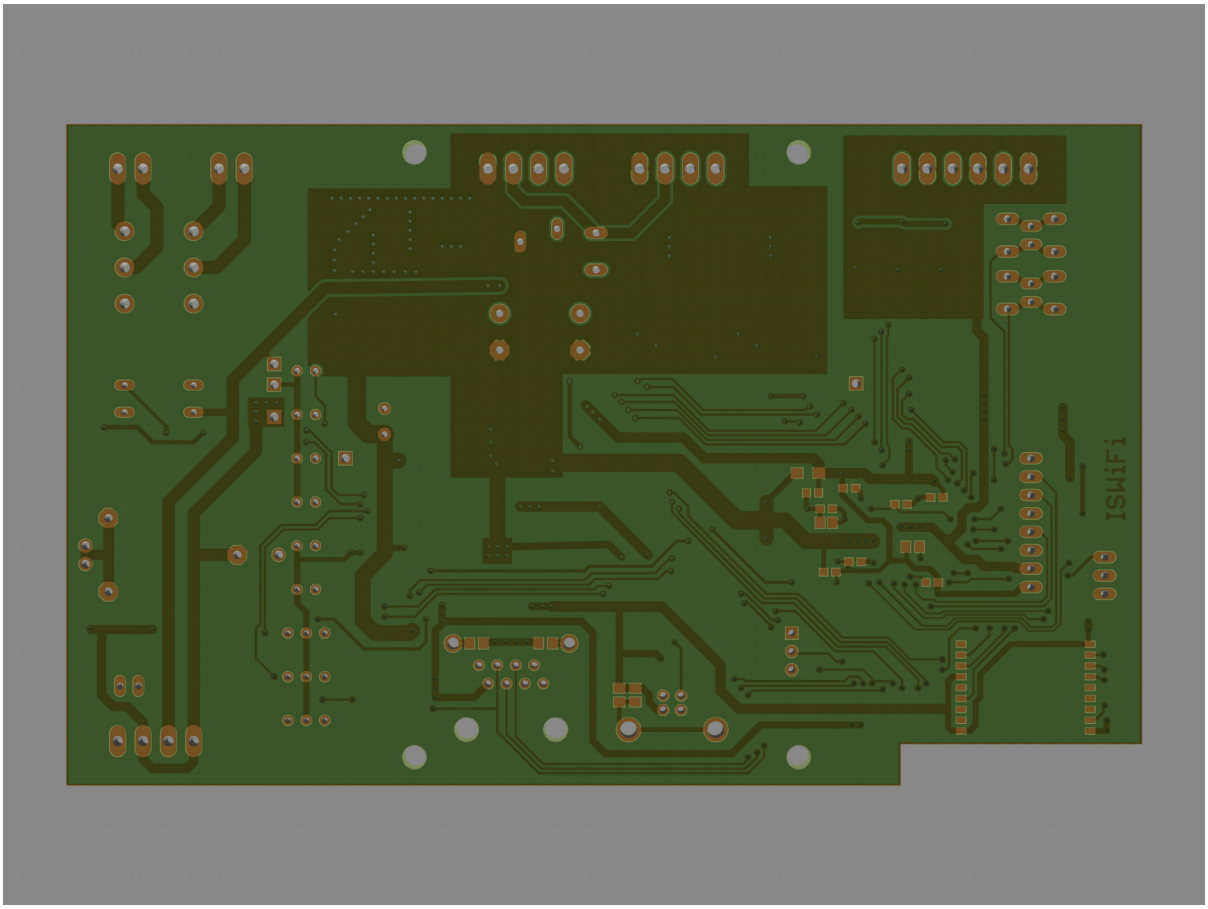
LED

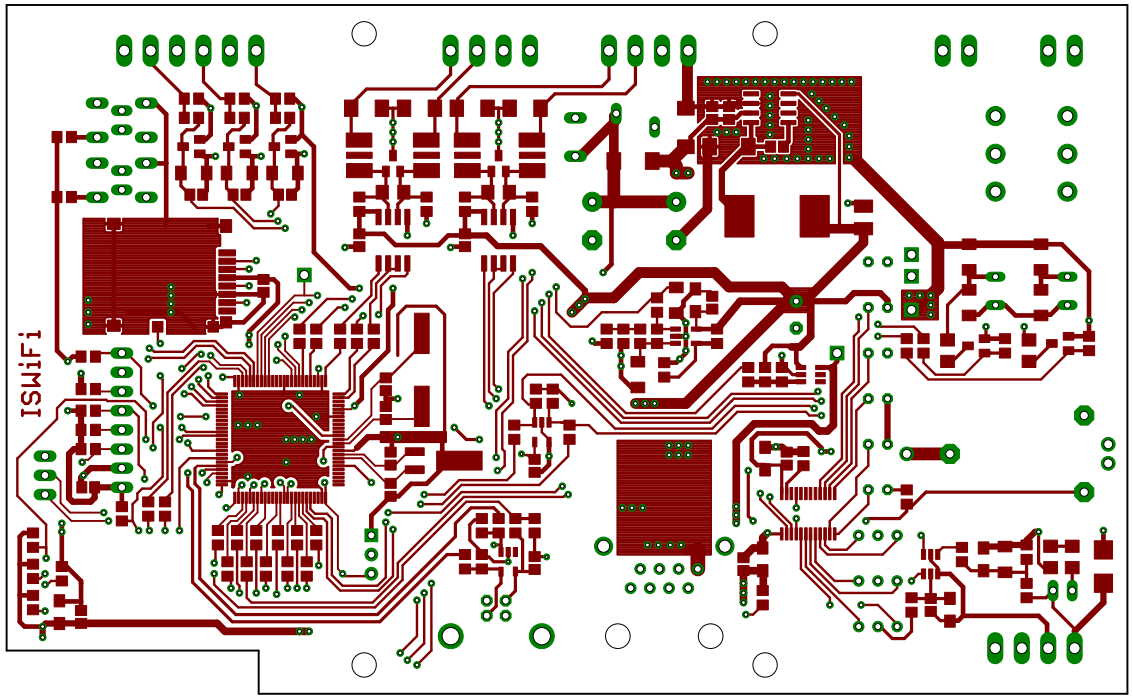


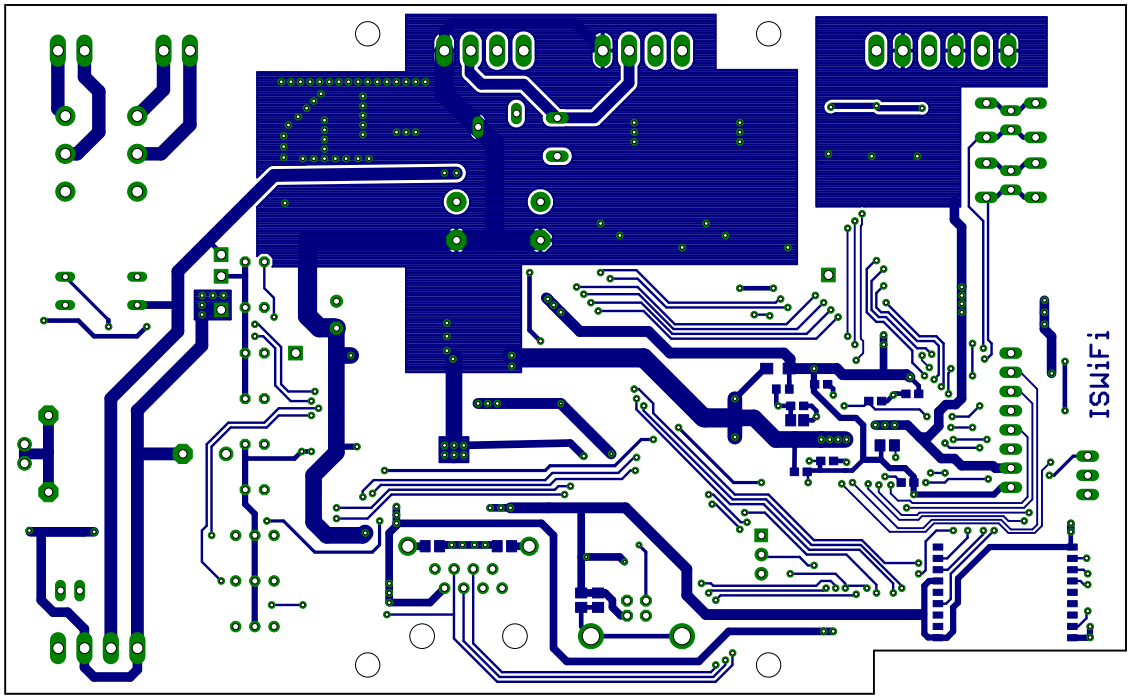


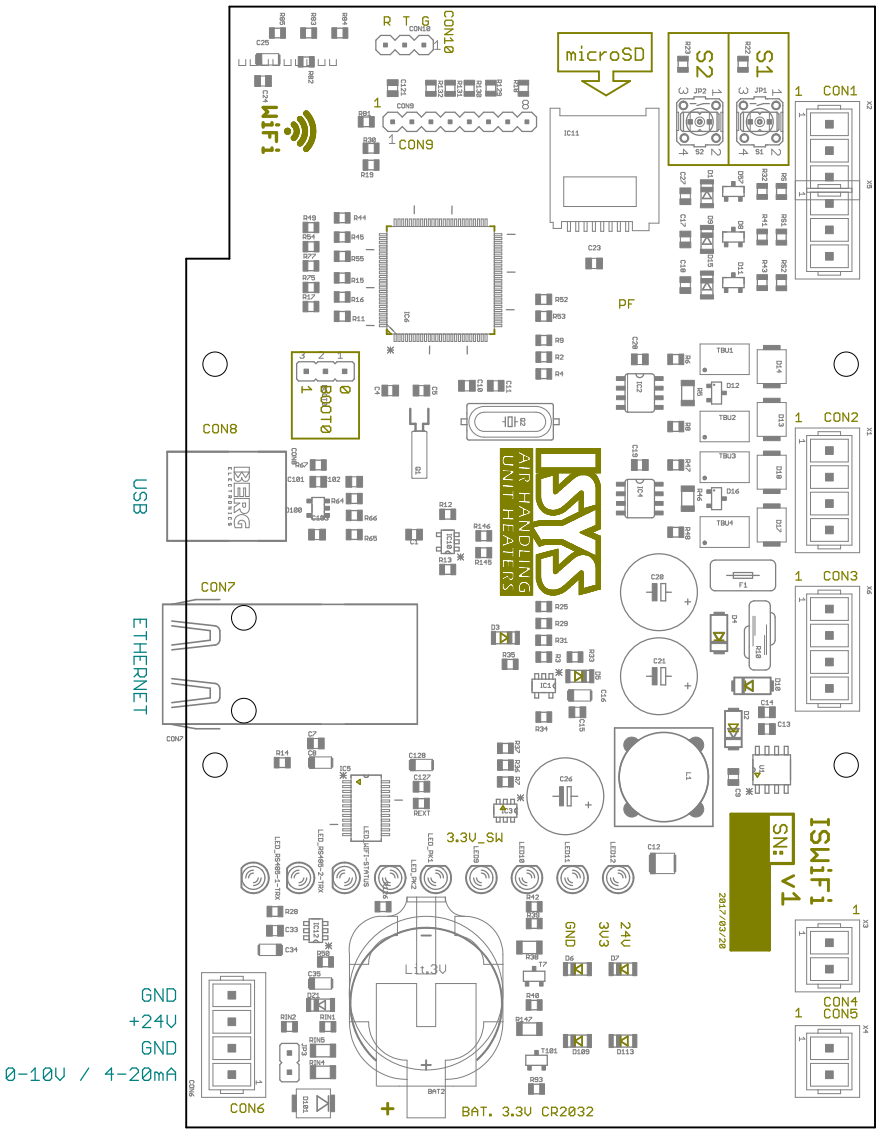
ISYS		
Project name: ISWiFi		
Description:		REV: 1
Date: 20-03-2017	R. Smaga	

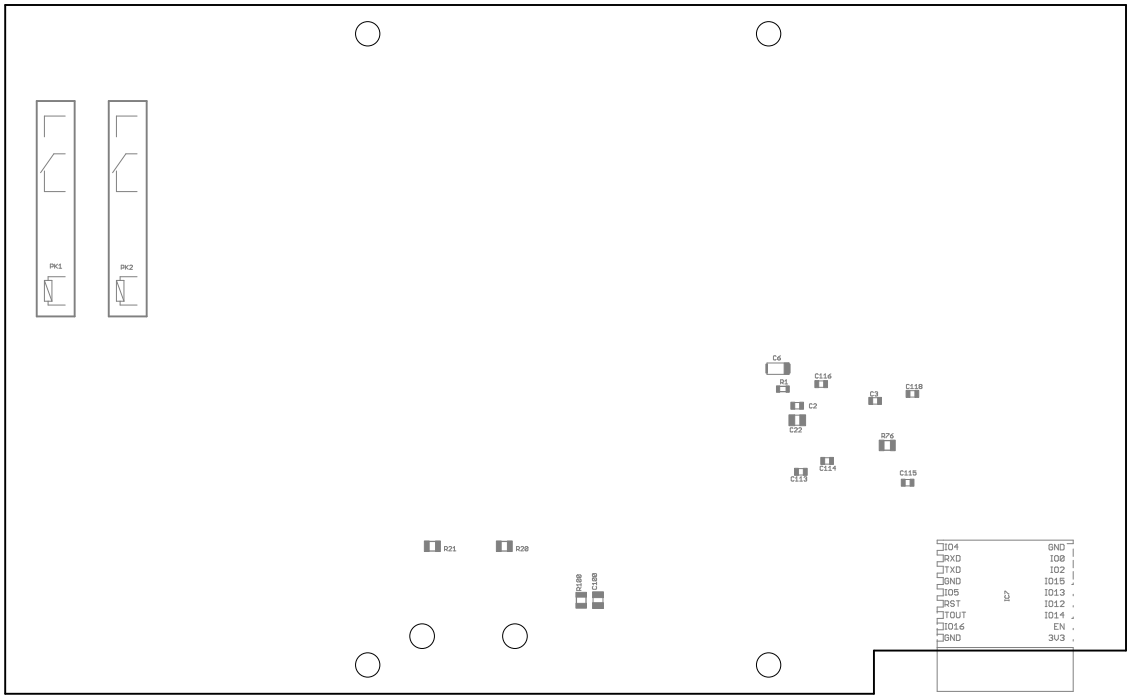

CON1
CON2
CON3
CON4
CON5
ISWiFi
SN:
v1
2017/03/28
S1
S2
microSD
PF
ISYS
AIR HANDLING
UNIT HEATERS
24V
3V3
GND
3.3V_SW
BAT. 3.3V CR2032
ISWiFi
CON10
R T G
CON9
0
BOOT0
1
WiFi
CON8
CON7
CON6

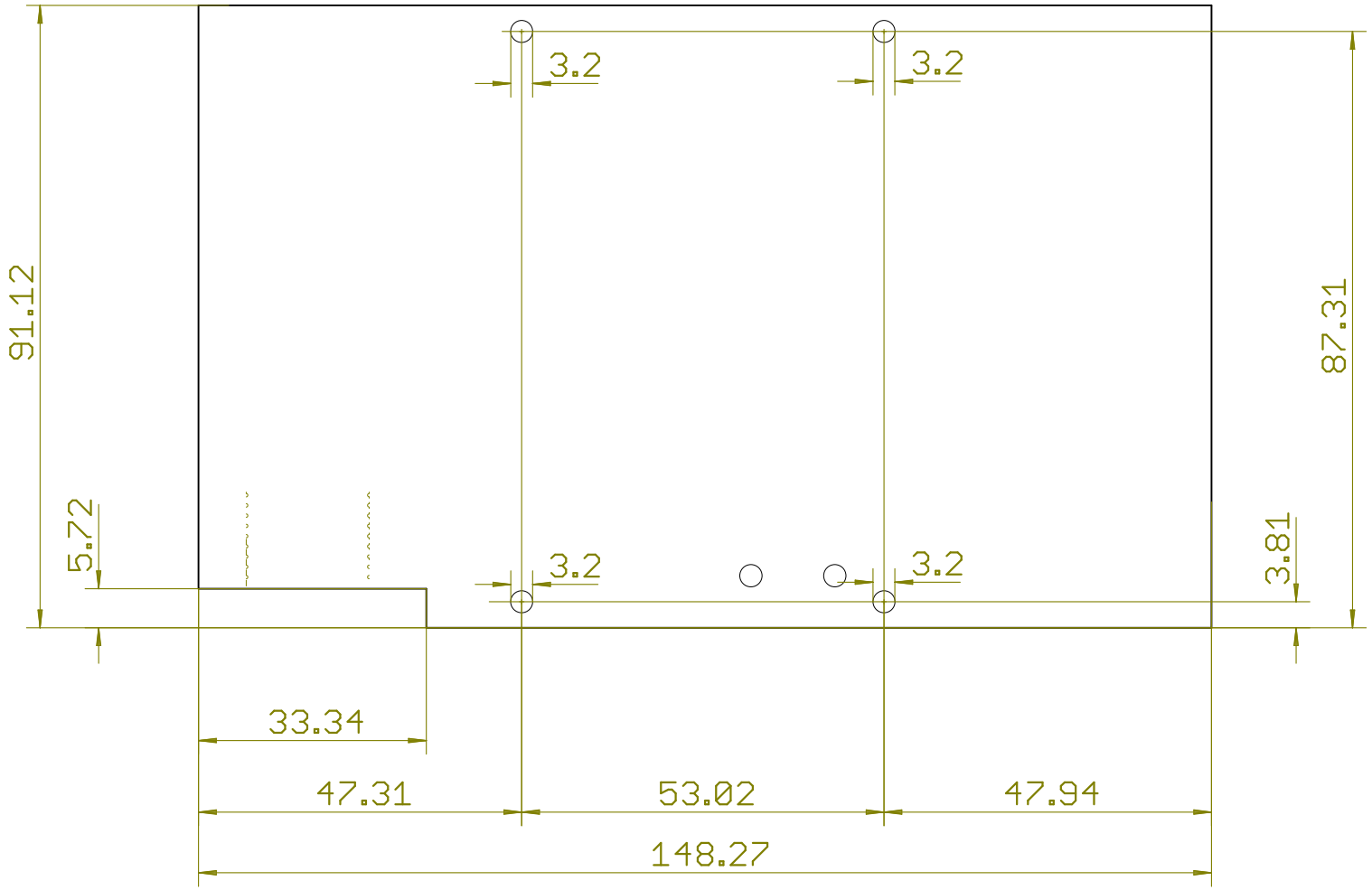

ISWiFi


ISWiFi


ISWiFi


R T G
CON10
microSD
S2
S1
CON1
GND
KTY81/210-1
GND
KTY81/210-2
GND
KTY81/210-3
CON9
WiFi
PF
BOOT0
CON8
CON2
RS485-1-B
RS485-1-A
+24V
GND
USB
AIR HANDLING UNIT HEATERS
CON3
RS485-2-B
RS485-2-A
+24V
GND
CON7
ETHERNET
3.3V_SW
ISWiFi
SN:
v1
2017/03/28
PK2
CON4
CON5
PK1
GND
+24V
GND
0-10V / 4-20mA
CON6
BAT. 3.3V CR2032


PK1
PK2
C6
C116
R1
C2
C3
C118
C22
R76
C113
C114
C115
R21
R20
R108
C109
IO4
RXD
TXD
GND
IO5
RST
TOUT
IO16
GND
GND
IO0
IO2
IO15
IO13
IO12
IO14
EN
3V3
M2


3.2
3.2
91.12
87.31
5.72
3.2
3.2
3.81
33.34
47.31
53.02
47.94
148.27