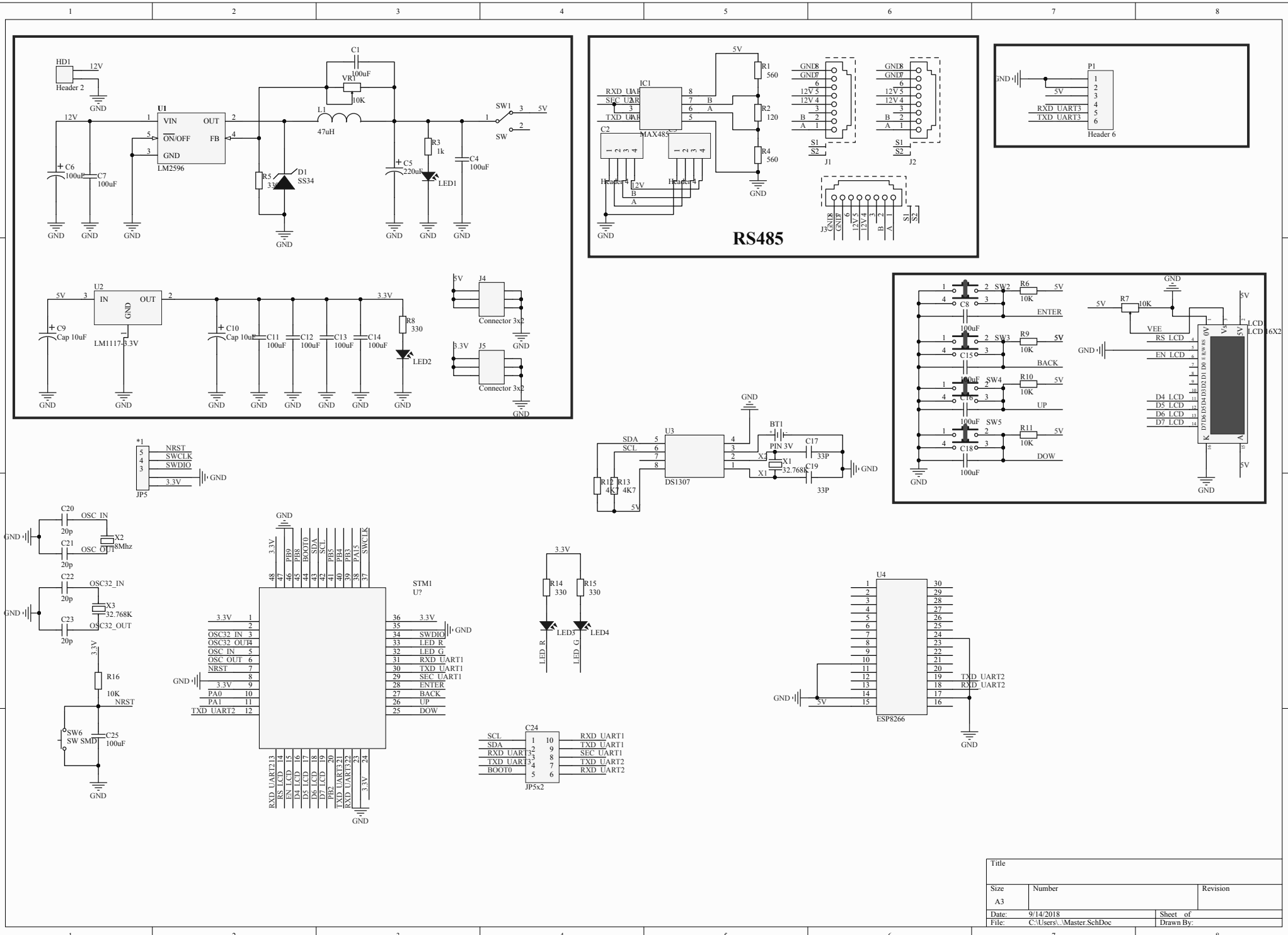
HD1
Header 2
12V
GND
C1
100uF
VR1
10K
U1
VIN
OUT
ON/OFF
FB
GND
LM2596
L1
47uH
SW1
SW
5V
C6
100uF
C7
100uF
R5
330
D1
SS34
C5
220uF
R3
1k
LED1
C4
100uF
U2
IN
OUT
GND
LM1117-3.3V
C9
Cap 10uF
C10
Cap 10uF
C11
100uF
C12
100uF
C13
100uF
C14
100uF
3.3V
R8
330
LED2
J4
Connector 3x2
J5
Connector 3x2
IC1
MAX485
RXD_UART3
SEC_UART3
TXD_UART3
C2
Header4
R1
560
R2
120
R4
560
J1
J2
J3
RS485
P1
Header 6
RXD_UART3
TXD_UART3
SW2
SW3
SW4
SW5
R6
R9
R10
R11
10K
ENTER
BACK
UP
DOW
C8
C15
C16
C18
100uF
R7
VEE
RS_LCD
EN_LCD
D4_LCD
D5_LCD
D6_LCD
D7_LCD
LCD
LCD16X2
U3
DS1307
SDA
SCL
R12
4K7
R13
4K7
BT1
PIN 3V
C17
33P
X2
X1
32.768K
C19
33P
JP5
NRST
SWCLK
SWDIO
3.3V
C20
20p
OSC_IN
X2
8Mhz
C21
20p
OSC_OUT
C22
20p
OSC32_IN
X3
32.768K
C23
20p
OSC32_OUT
R16
10K
NRST
SW6
SW SMD
C25
100uF
STM1
U?
OSC32_IN
OSC32_OUT
OSC_IN
OSC_OUT
NRST
PA0
PA1
TXD_UART2
SWDIO
LED_R
LED_G
RXD_UART1
TXD_UART1
SEC_UART1
ENTER
BACK
UP
DOW
RXD_UART2
RS_LCD
EN_LCD
D4_LCD
D5_LCD
D6_LCD
D7_LCD
PB8
TXD_UART3
RXD_UART3
R14
330
R15
330
LED3
LED4
C24
JP5x2
SCL
SDA
RXD_UART3
TXD_UART3
BOOT0
RXD_UART1
TXD_UART1
SEC_UART1
TXD_UART2
RXD_UART2
U4
ESP8266
TXD_UART2
RXD_UART2
Title
Size
A3
Number
Revision
Date: 9/14/2018
File: C:\Users\..\Master.SchDoc
Sheet of
Drawn By: