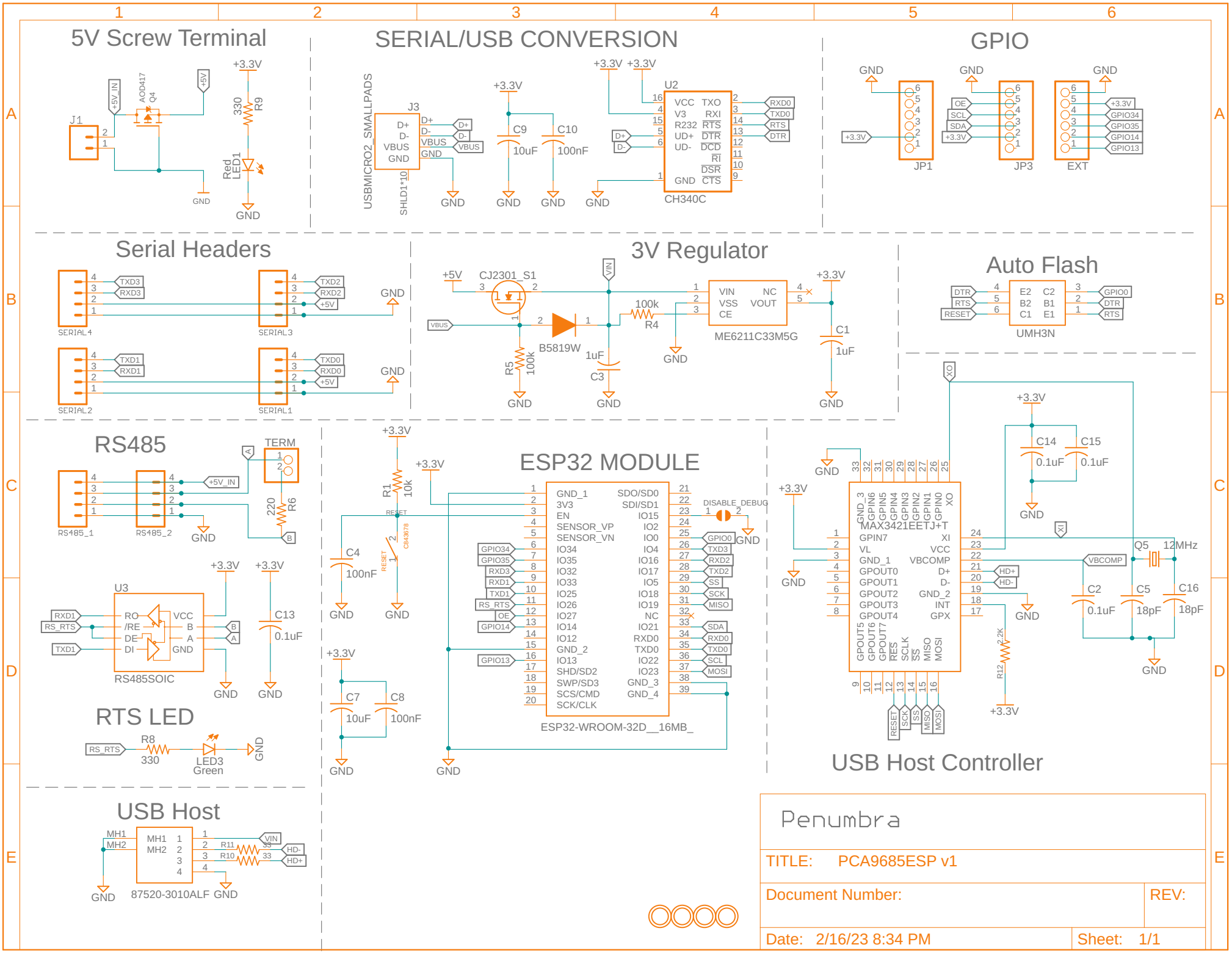
5V Screw Terminal
J1
+5V_IN
AOD417
Q4
+5V
+3.3V
330
R9
Red
LED1
GND
SERIAL/USB CONVERSION
USBMICRO2_SMALLPADS
J3
D+
D-
VBUS
GND
SHLD1*10
+3.3V
C9
10uF
C10
100nF
U2
VCC
V3
R232
UD+
UD-
TXO
RXI
RTS
DTR
DCD
RI
DSR
CTS
RXD0
TXD0
CH340C
GPIO
JP1
JP3
EXT
OE
SCL
SDA
GPIO34
GPIO35
GPIO14
GPIO13
Serial Headers
SERIAL4
SERIAL3
SERIAL2
SERIAL1
TXD3
RXD3
TXD2
RXD2
TXD1
RXD1
TXD0
RXD0
3V Regulator
CJ2301_S1
VBUS
B5819W
R5
100k
VIN
1uF
C3
100k
R4
VIN
VSS
CE
NC
VOUT
ME6211C33M5G
C1
1uF
Auto Flash
DTR
RTS
RESET
E2
B2
C1
C2
B1
E1
UMH3N
RS485
RS485_1
RS485_2
TERM
A
B
220
R6
U3
RO
/RE
DE
DI
VCC
B
A
GND
RS485SOIC
C13
0.1uF
RTS LED
RS_RTS
R8
330
LED3
Green
ESP32 MODULE
R1
10k
RESET
C4
100nF
C7
10uF
C8
100nF
GND_1
3V3
EN
SENSOR_VP
SENSOR_VN
IO34
IO35
IO32
IO33
IO25
IO26
IO27
IO14
IO12
GND_2
IO13
SHD/SD2
SWP/SD3
SCS/CMD
SCK/CLK
SDO/SD0
SDI/SD1
IO15
IO2
IO0
IO4
IO16
IO17
IO5
IO18
IO19
NC
IO21
RXD0
TXD0
IO22
IO23
GND_3
GND_4
DISABLE_DEBUG
SDA
SCL
MOSI
ESP32-WROOM-32D__16MB_
USB Host Controller
XO
XI
MAX3421EETJ+T
GPIN7
VL
GND_1
GPOUT0
GPOUT1
GPOUT2
GPOUT3
GPOUT4
VCC
VBCOMP
D+
D-
GND_2
INT
GPX
GPOUT5
GPOUT6
GPOUT7
RES
SCLK
SS
MISO
MOSI
C14
0.1uF
C15
0.1uF
Q5
12MHz
C2
0.1uF
C5
18pF
C16
18pF
HD+
HD-
R12
2.2K
USB Host
MH1
MH2
87520-3010ALF
R11
R10
33
Penumbra
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