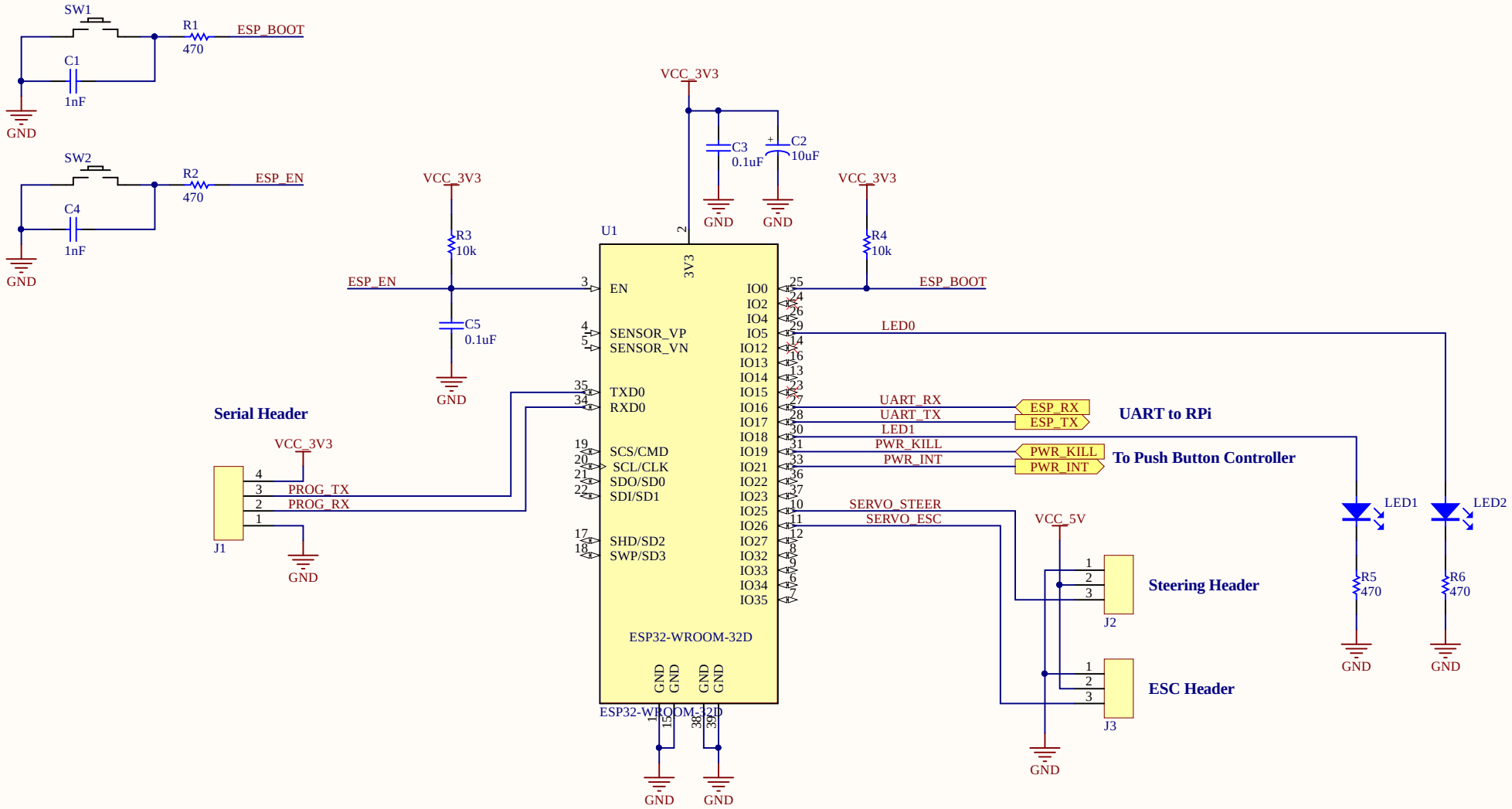

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Date: 15/05/2019	Time: 1:51:31 PM	Sheet * of *	
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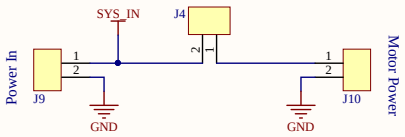
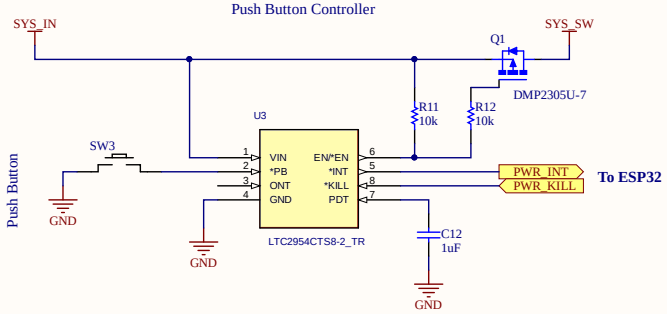
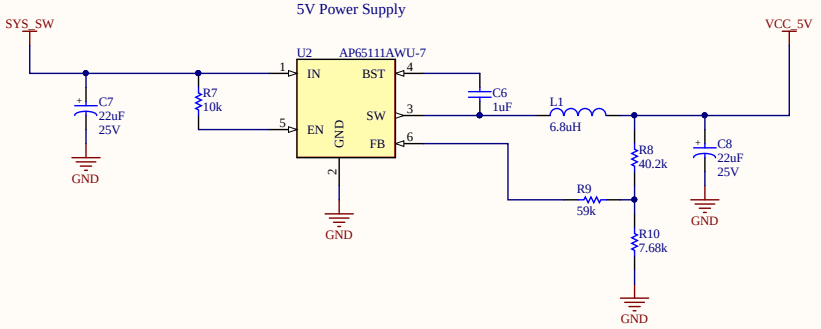
Motor Switch



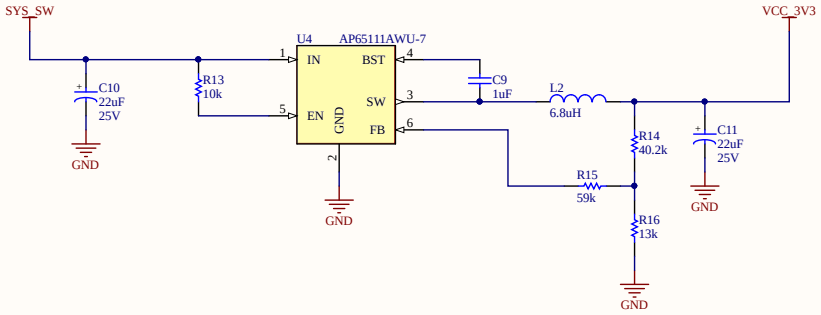
Push Button Controller



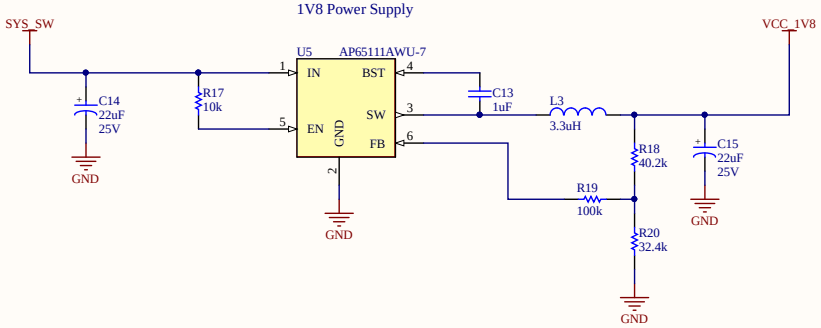
5V Power Supply



3V3 Power Supply



1V8 Power Supply



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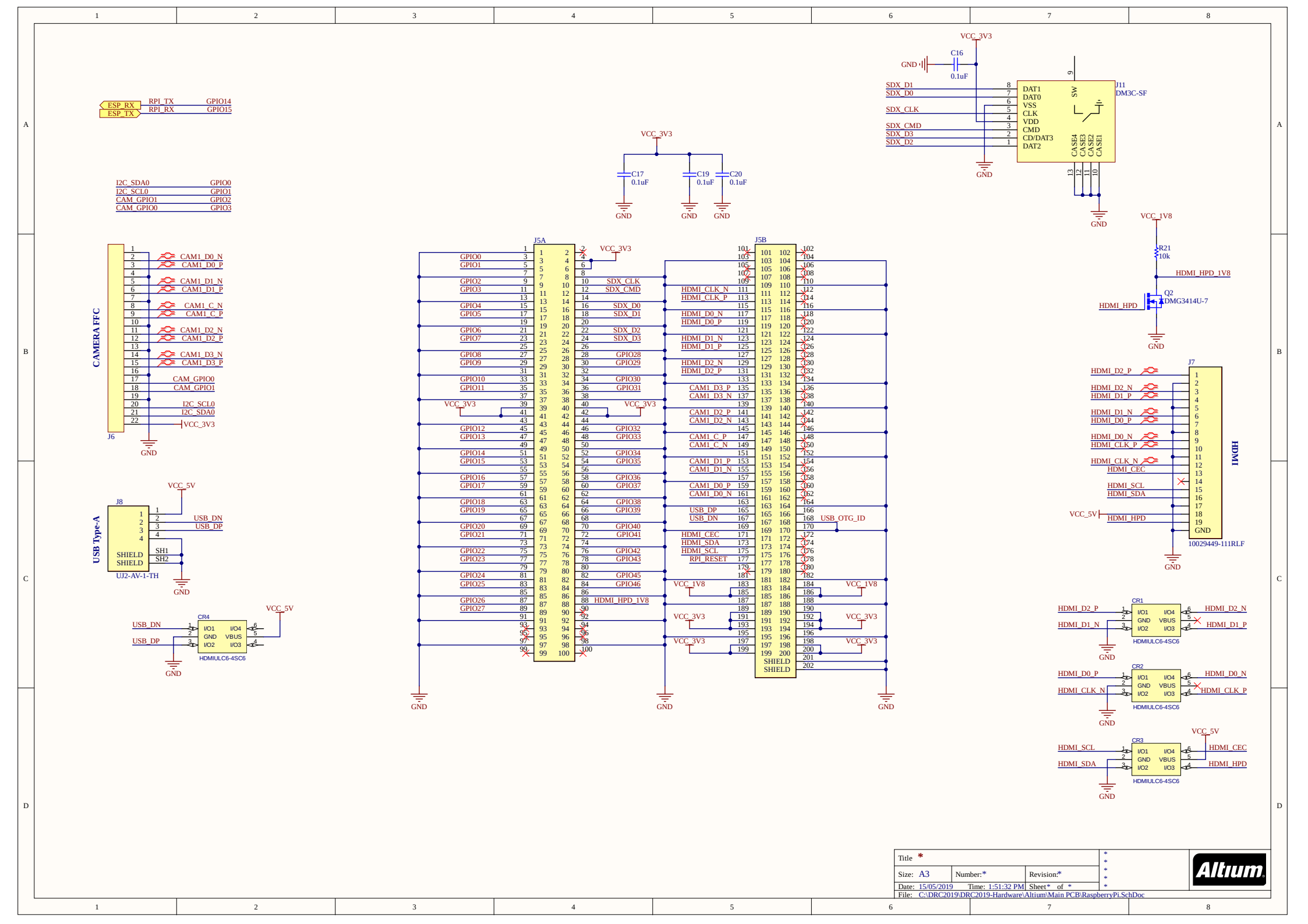
ESP_RX
ESP_TX
RPI_TX
RPI_RX
GPIO14
GPIO15
I2C_SDA0
I2C_SCL0
CAM_GPIO1
CAM_GPIO0
GPIO0
GPIO1
GPIO2
GPIO3
CAMERA FFC
J6
CAM1_D0_N
CAM1_D0_P
CAM1_D1_N
CAM1_D1_P
CAM1_C_N
CAM1_C_P
CAM1_D2_N
CAM1_D2_P
CAM1_D3_N
CAM1_D3_P
CAM_GPIO0
CAM_GPIO1
I2C_SCL0
I2C_SDA0
VCC_3V3
GND
USB Type-A
J8
VCC_5V
USB_DN
USB_DP
SHIELD
SH1
SH2
UJ2-AV-1-TH
CR4
I/O1
I/O4
GND
VBUS
I/O2
I/O3
HDMIULC6-4SC6
C16
0.1uF
C17
C19
C20
J11
DM3C-SF
SDX_D1
SDX_D0
SDX_CLK
SDX_CMD
SDX_D3
SDX_D2
DAT1
DAT0
VSS
CLK
VDD
CMD
CD/DAT3
DAT2
SW
CASE4
CASE3
CASE2
CASE1
J5A
J5B
SDX_CLK
SDX_CMD
SDX_D0
SDX_D1
SDX_D2
SDX_D3
GPIO28
GPIO29
GPIO30
GPIO31
GPIO32
GPIO33
GPIO34
GPIO35
GPIO36
GPIO37
GPIO38
GPIO39
GPIO40
GPIO41
GPIO42
GPIO43
GPIO45
GPIO46
HDMI_HPD_1V8
HDMI_CLK_N
HDMI_CLK_P
HDMI_D0_N
HDMI_D0_P
HDMI_D1_N
HDMI_D1_P
HDMI_D2_N
HDMI_D2_P
CAM1_D3_P
CAM1_D3_N
CAM1_D2_P
CAM1_D2_N
CAM1_C_P
CAM1_C_N
CAM1_D1_P
CAM1_D1_N
CAM1_D0_P
CAM1_D0_N
USB_DP
USB_DN
USB_OTG_ID
HDMI_CEC
HDMI_SDA
HDMI_SCL
RPI_RESET
VCC_1V8
R21
10k
Q2
DMG3414U-7
HDMI_HPD
J7
HDMI
HDMI_HPD
10029449-111RLF
CR1
CR2
CR3
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Size: A3
Number:*
Revision:*
Date: 15/05/2019
Time: 1:51:32 PM
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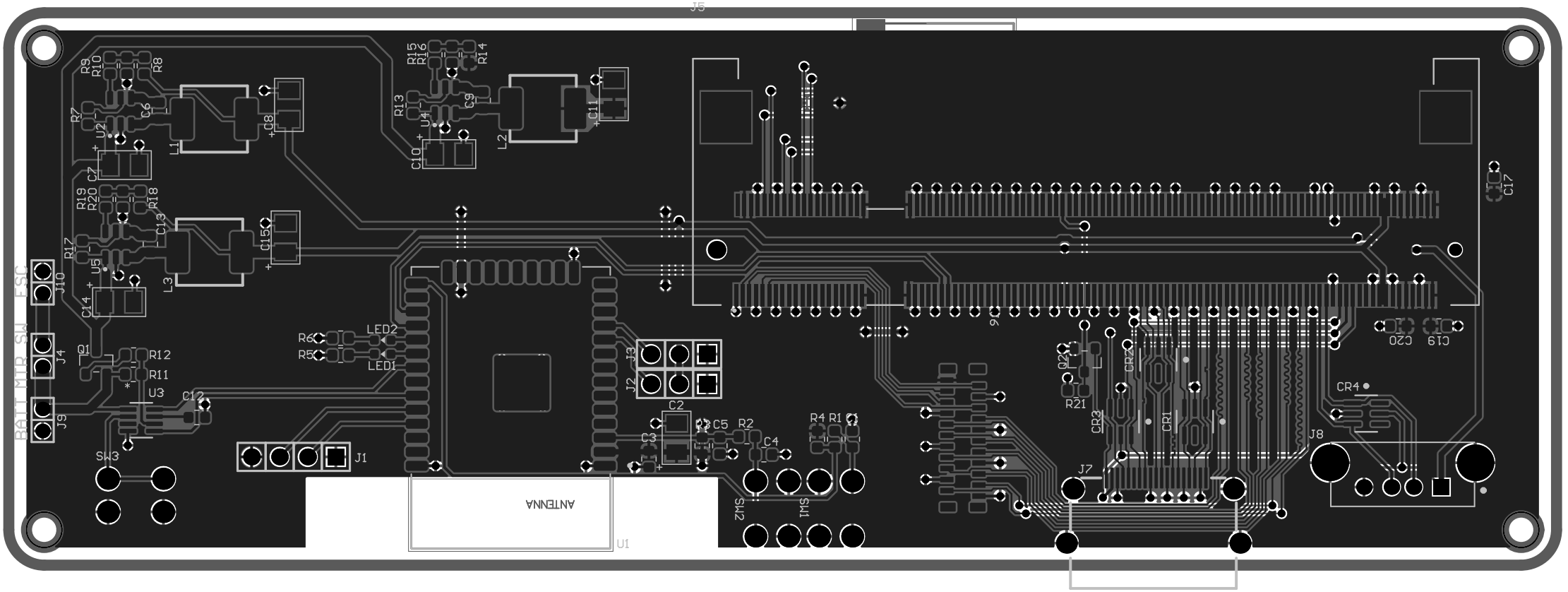
Altium


J5
R9
R10
R8
R7
C6
U2
C8
L1
C2
R15
R16
R14
R13
C9
U4
C10
L2
C11
R19
R20
R18
C13
C15
R17
U5
L3
C14
J10
J4
Q1
R12
R11
U3
C12
J9
BATT MTR SW ESC
SW3
R6
R5
LED2
LED1
J1
J3
J2
C2
C3
C5
R2
C4
R4
R1
SW2
SW1
ANTENNA
U1
Q2
L
CR2
R21
CR3
CR1
CR4
J8
J7
C20
C19
C17

Name	Description	Designator	Footprint	LibRef	Quantity
CAP	#NAME?	C1, C4	C0603	CAP	2
CAP-P	#NAME?	C2	CASE-A	CAP-P	1
CAP	#NAME?	C3, C5, C16, C17, C19,	C0603	CAP	6
CAP	#NAME?	C6, C9, C12, C13	C0603	CAP	4
CAP-P	#NAME?	C7, C8, C10, C11, C14,	CASE-A	CAP-P	6
HDMIULC6-4SC6		CR1, CR2, CR3, CR4	SOT23-6L	HDMIULC6-4SC6	4
HDR_1x4	#NAME?	J1	PINHEAD_2.54mm_1x	HDR_1x4	1
HDR_1x3	#NAME?	J2, J3	PINHEAD_2.54mm_1x	HDR_1x3	2
HDR_1x2	#NAME?	J4, J9, J10	PINHEAD_2.00mm_1x	HDR_1x2	3
1473150-4	CONN SKT SODIMM 2	J5	1473005-1	1473005-1	1
5019512210	FFC 22 POS VERT	J6	5019512210	HDR_1x22	1
10029449-111RLF	CONN RCPT 1.4 HDMI	J7	10029449-111RLF	10029449-111RLF	1
UJ2-AV-1-TH	Standard A Type 4 Pin	J8	UJ2-AV-1-TH	UJ2-AV-1-TH	1
DM3C-SF	#NAME?	J11	USD_DM3CS	uSD_DM3C-SF	1
PA4332.103NLT	#NAME?	L1, L2	PA4332.XXXNLT	IND	2
PA4332.103NLT	FIXED IND 10UH 2A 2	L3	PA4332.XXXNLT	IND	1
LED	LED	LED1, LED2	0603-LED	LED	2
DMP2305U-7	P Channel MOSFET, S	Q1	SOT23-3	MOSFET_P_GSD	1
DMG3414U-7	N Channel MOSFET, S	Q2	SOT23-3	MOSFET_N_GSD	1
RES	#NAME?	R1, R2, R5, R6	R0603	RES	4
RES	#NAME?	R3, R4, R7, R11, R12, F	R0603	RES	8
RES	#NAME?	R8, R14, R18	R0603	RES	3
RES	#NAME?	R9, R15	R0603	RES	2
RES	#NAME?	R10	R0603	RES	1
RES	#NAME?	R16	R0603	RES	1
RES	#NAME?	R19	R0603	RES	1
RES	#NAME?	R20	R0603	RES	1
TACTILE_BUTTON		SW1, SW2, SW3	TACTILE_BUTTOn	TACTILE_BUTTON	3
ESP32-WROOM-32D	IC: SoC; GPIO, I2C, I2S	U1	ESP32-WROOM-32D	ESP32-WROOM-32D	1
AP65111AWU-7	Dcdc Conv Hv Buck Ts	U2, U4, U5	SOT95P280X100-6N	AP65111AWU-7	3
LTC2954CTS8-2_TR		U3	TSOT-23_TS8-M	LTC2954CTS8-2_TR	1