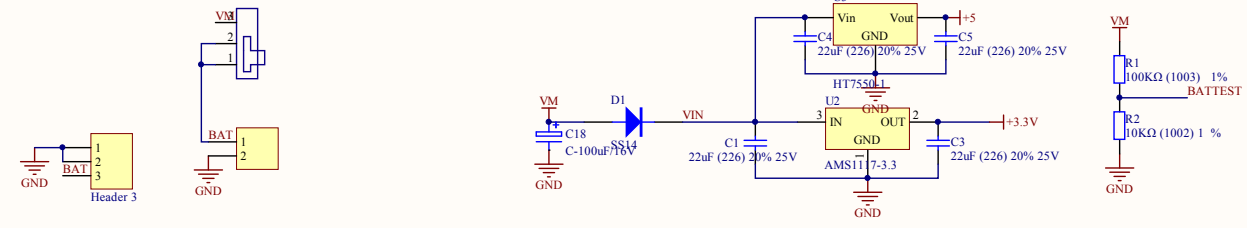
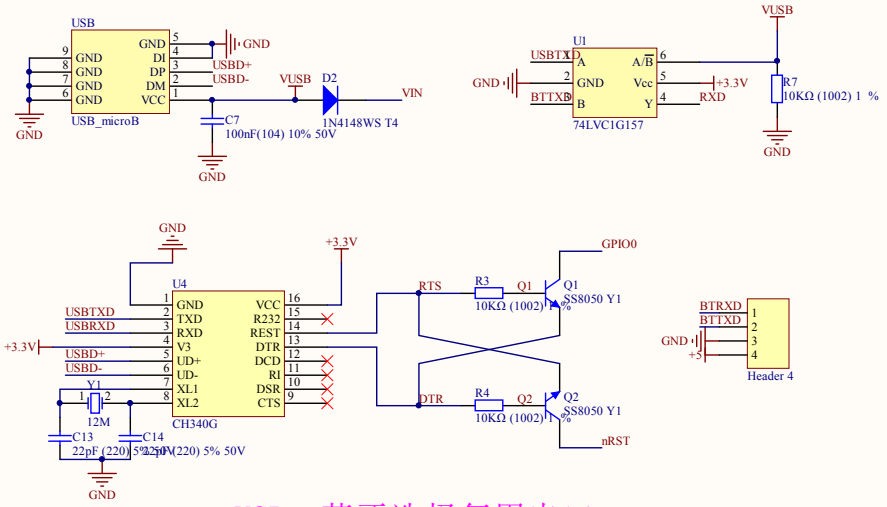
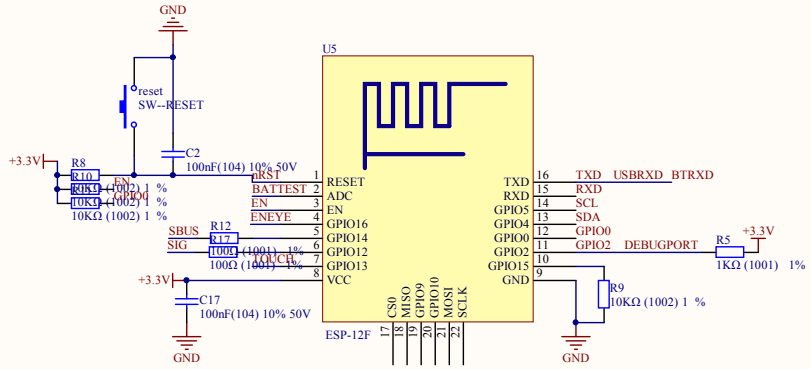


充电口、开关、电池接口

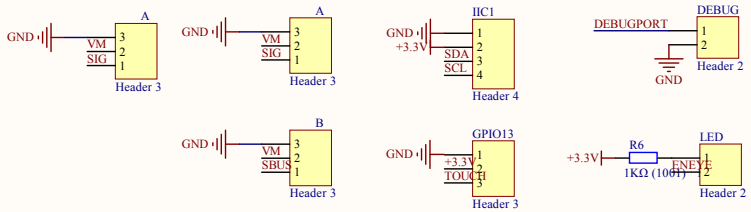
降压稳压电路



USB、蓝牙选择复用串口



主控电路



总线、IIC、GPIO接口

总线机械臂电路原理图

Title		
Size A3	Number	Revision
Date: 2018/7/5		Sheet of
File: C:\Users\..\WK-ARM-V1-SHEET.SchDoc		Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
22uF (226) 20%25V	贴片电容	C1, C3, C4, C5	0603_C	0805 22uF (226) 20% 25V	4
100nF(104) 10%50V	贴片电容	C2, C7, C17	0603_C	0805 100nF(104) 10% 50V	3
22pF (220) 5%50V	贴片电容	C13, C14	0603_C	0805 22pF (220) 5%50V	2
C-100uF/ 16V		C18	C-SMT-6673	MYELEC	1
SS14	Diode	D1	SMA	DIODE	1
1N4148WS T4	二极管	D2	SOD-323	SOD-323 1N4148WS T4	1
Header 2	Header, 2-Pin	DEBUG, LED	HDR1X2	Header 2	2
Header 3	SH1.0_3P插座	GPIO13	SH1.0_WT	Header 3	1
Header 4	Header, 4-Pin	IIC1	SH1.0-4PS	Header 4	1
SS8050 Y1	三极管	Q1, Q2	SOT-23(SOT-23-3)	SOT-23 SS8050 Y1	2
100KΩ (1003) 1%	贴片电阻	R1	0603_R	0805 100KΩ (1003) 1%	1
10KΩ (1002) 1%	贴片电阻	R2, R3, R4, R7, R8, R9, R10, R11	0603_R	0603 10KΩ (1002) 1%, 0805 10KΩ (1002) 1	8
1KΩ (1001) 1%	贴片电阻	R5, R6	0603_R	0805 10KΩ (1002) 1%	2
100Ω (1001) 1%	贴片电阻	R12, R17	0603_R	0805 1KΩ (1001) 1%	2
SW--RESET	Switch	reset	SW_2P_4*3	SW-PB	1
74LVC1G157		U1	SOT-363	74LVC1G157	1
AMS1117-3.3	Precision 1A Regulator	U2	SOT-223_eN	L7805ABV	1
HT7550-1	低压差线性稳压(LDO)	U3	SOT-89(SOT-89-3)	SOT-89 HT7550-1	1
CH340G		U4	SO-16K	CH340G	1
ESP-12F		U5	ESP8266	ESP8266-12E	1
USB_microB		USB	USB_microB	USB_miniB	1
OSC	Crystal Oscillator	Y1	Y_3215-3	XTAL	1
Header 3	Header, 3-Pin	充电	DC044	Header 3	1
SW-POWER		开关	SK12D07VG3	SW-POWER	1
Header 3	Header, 3-Pin	总线A, 总线B	5264-3P	Header 3	3
Header 2	Header, 2-Pin	电池	XH2P_2.54	Header 2	1
Header 4	Header, 4-Pin	蓝牙	HDR1X4	Header 4	1