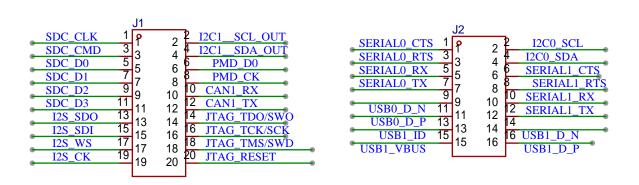
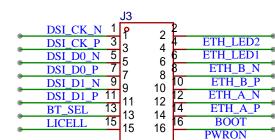
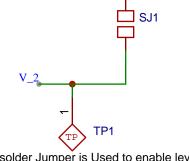
Header Connections

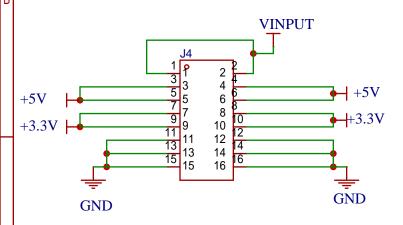






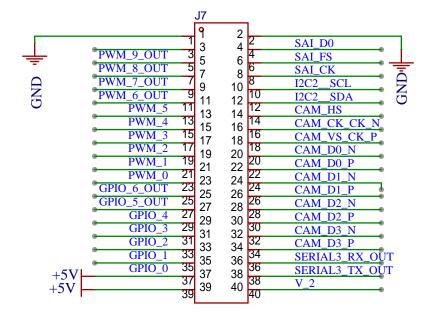
* Opened solder Jumper is Used to enable levelshifting to a supplied voltage from outside

*SJ designator is used for indicate solder jumpers



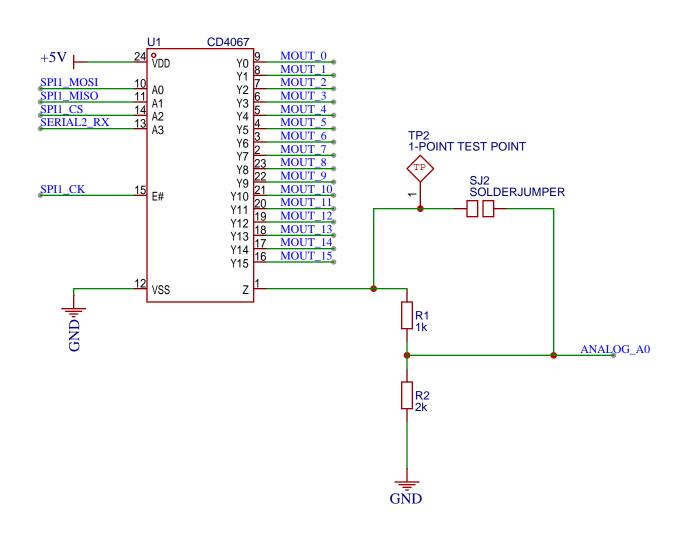
	J5		
OUT_A7	1 p	2 2	SERIAL2_RX_
OUT_A6	3 2	4	SERIAL2_TX
OUT_A5	5 5	6	SPI1_MISO
OUT_A4	7 7	8 8	SPI1_MOSI
ANALOG_A3	9 '	10 0	SPI1_CS
ANALOG_A2	11 11	12 12	SPI1_CK
ANALOG_A1	13 13	14 14	ANALOG_VREF_N
ANALOG_A0	15 15	16 16	ANALOG_VREF_F
_	10	.0	

	J6		
MOUT_0	1 ρ	2 2	MOUT_15
MOUT_1	3 3	4	MOUT_14
MOUT_2	5 5	6	MOUT_13
MOUT_3	7 7	8 8	MOUT_12
MOUT_4	9 '	10 10	MOUT_11
MOUT_5	11 11	12 12	MOUT_10
MOUT_6	13	14 14	MOUT_9
MOUT_7	15 15	16 16	MOUT_8
	13	10	



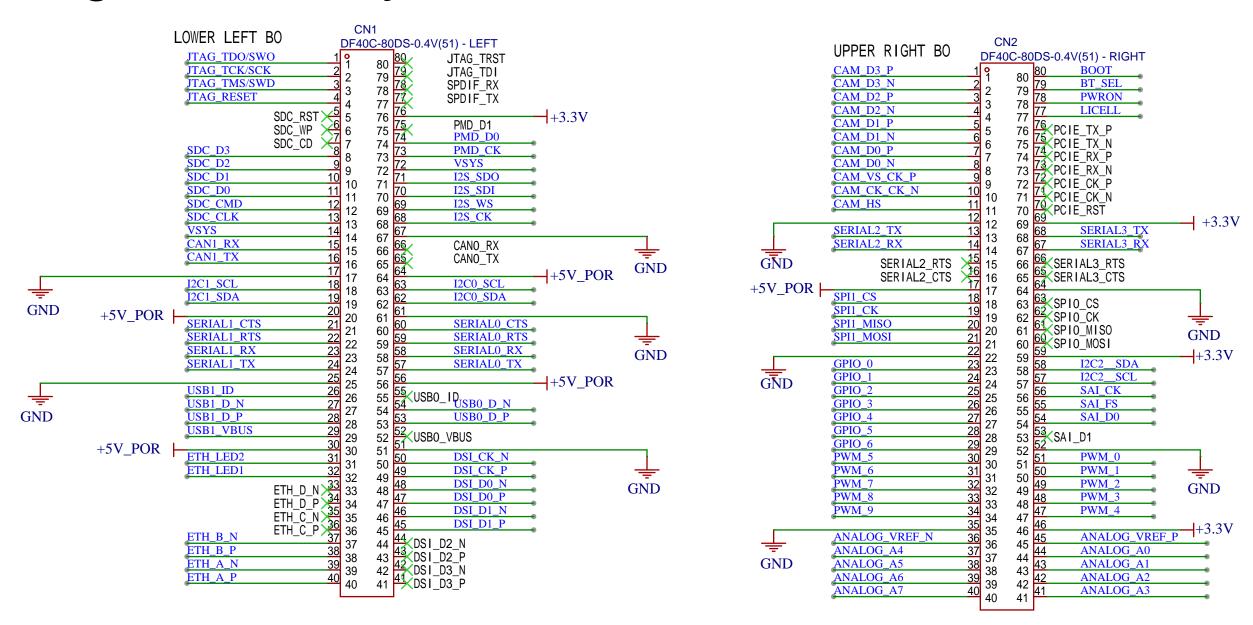
Schematic	Portenta Playmate					Date	2023-05-2	23	
Scriematic	10	Create	Date	2023-05-0	7				
Page		Headers							
Drawed	Ruchith Sandeepa								
Reviewed	Ruchith Sandeepa								
		VER	SIZE		PAGE	1	0F	7	
		V0.1	A4			EN	TC		

Analog Multiplexer



Schematic	Po	rtonta Play	Update	Date	2023-05-2	23			
Scriematic	FU	nema ria	nta Playmate			Date	2023-05-1	0	
Page	,	Analog Multiplexer							
Drawed	Ruchith Sandeepa								
Reviewed	Ruchith Sandeepa								
		VER	SIZE		PAGE	2	OF	7	
		V0.1 A4 ENTC							

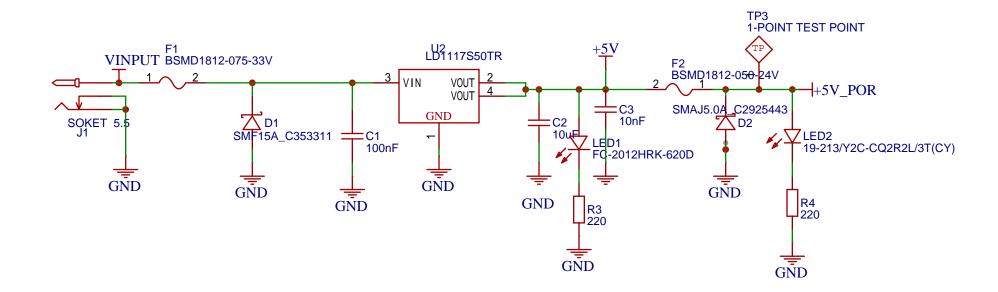
High Density connectors



^{*} The commented pins are not connected in circuit but their names are indicated before the pin for future use. (Those pins are used in arduino portenta X8 family boards)

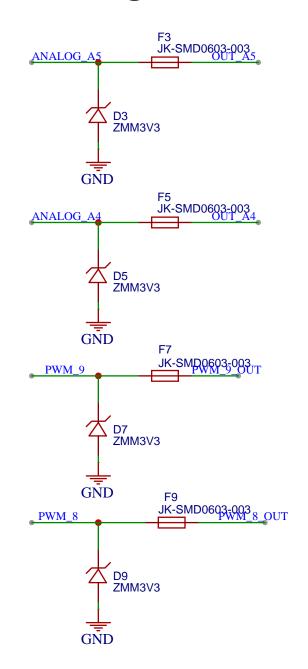
Schematic	Portenta Playmate					Date	2023-05-2	23	
Scriematic	10	1 ortorità i layiriato)7	
Page	Higl	High_density Connectors					JLCPCB-(002	
Drawed	Ruchith Sandeepa								
Reviewed	Ruchith Sandeepa								
		VER	SIZE		PAGE	3	0F	7	
		V0.1	A4			EN	TC		

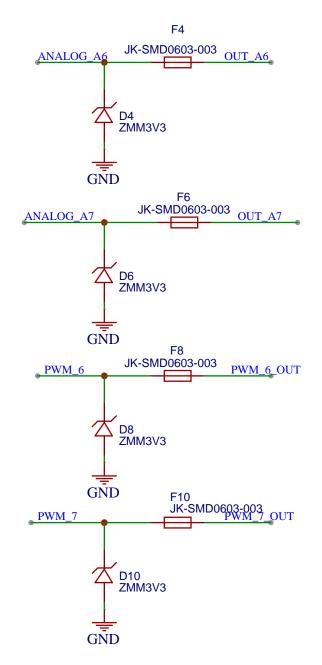
Power Circuit



Schematic	Po	rtenta Playmate			Update	Date	2023-05-23		
3CHematre Torterita Flayinate					Create	Date	2023-05-1	0	
Page	Power_Circuit					mber	JLCPCB-(002	
Drawed	Ruchith Sandeepa								
Reviewed	Reviewed								
		VER	SIZE		PAGE	4	0F	7	
		V0.1	A4	ENTC					

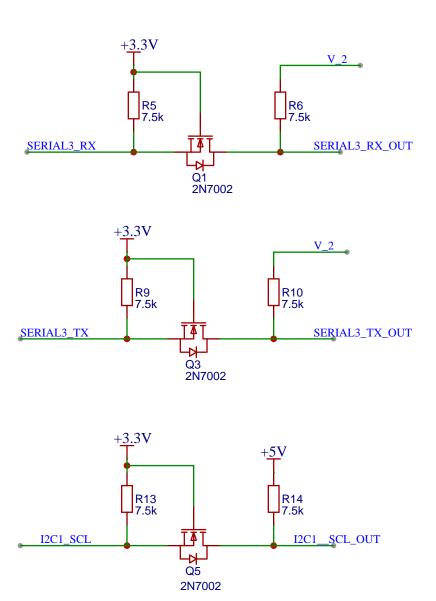
Current limited/ Short circuit/ Over voltage protected pins

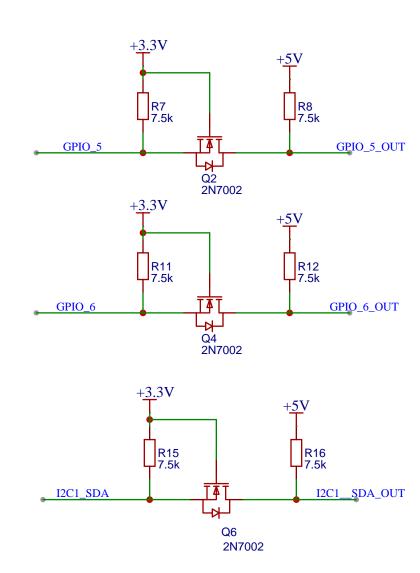




Schematic	Po	rtenta Playmate			Update	Date	2023-05-2	3	
Scriematic	10	rterita i layirlate			Create	Date	2023-05-1	0	
Page	Current Protection					ımber			
Drawed	Ruchith Sandeepa								
Reviewed	Ruchith Sandeepa								
		VER	SIZE		PAGE	5	OF	7	
		V0.1 A4					TC		

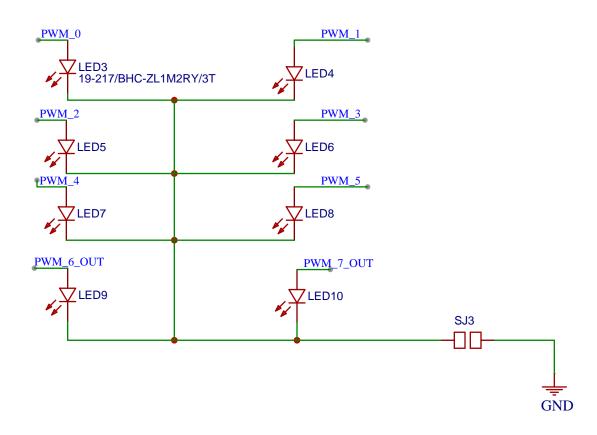
Level Shifters





Schematic	Portenta Playmate					Date	2023-05-2	23	
Scriematic	10	rienia ria	ymate		Create	Date	2023-05-1	10	
Page		Level Shifters					JLCPCB-	002	
Drawed	Ruchith Sandeepa								
Reviewed	Ruchith Sandeepa								
		VER	SIZE		PAGE	6	0F	7	
		V0.1	A4		ENTC				

LED Indicators



Schematic	Po	Portenta Playmate			Update	Date	2023-05-23		
Scriematic	10	rienia i ia	ymate		Create Date 2023-05-10			0	
Page		Led Indicators					JLCPCB-0	002	
Drawed	Ruchith Sandeepa								
Reviewed	Ruchith Sandeepa								
		VER	SIZE		PAGE	7	OF	7	
		V0.1	A4		ENTC				