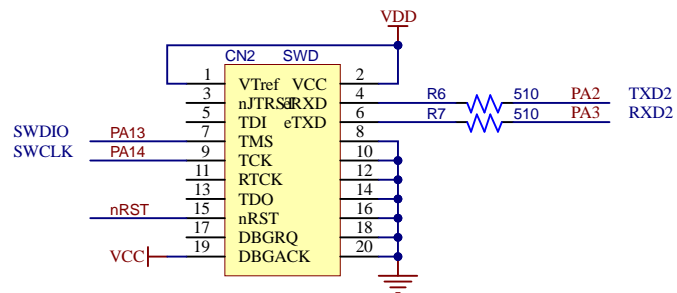
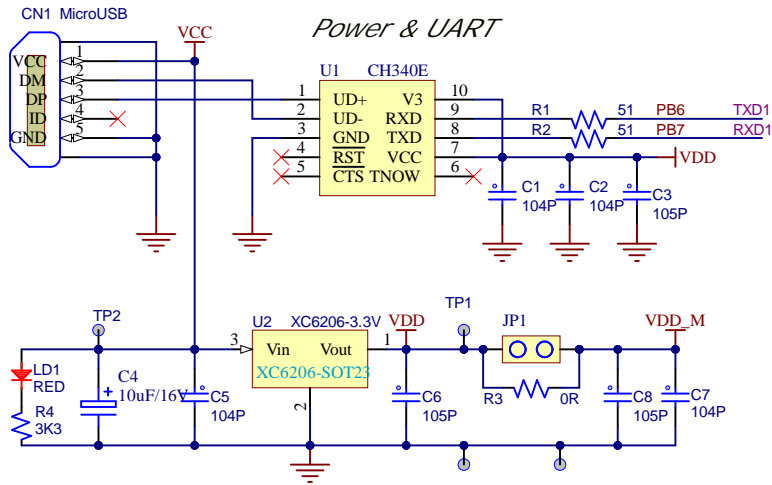
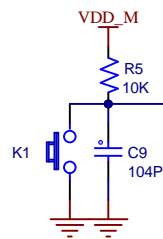


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Sheet Title				System Block Diagram			
Size	A4	Rev	B	Drawn	Lu Weiwei		
Sheet	1	/	8	Checked	Li Hongpeng		
Date	2023.06.15			Approved	Chen Do		

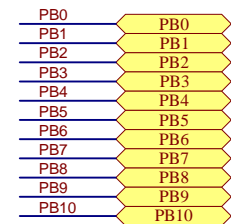
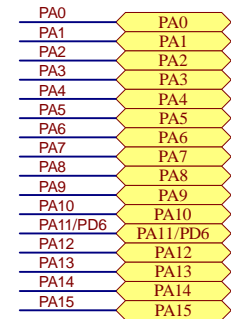
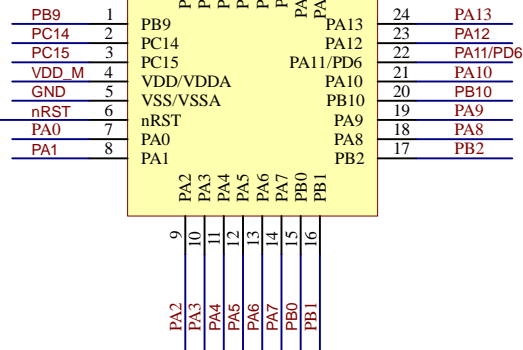




MCU

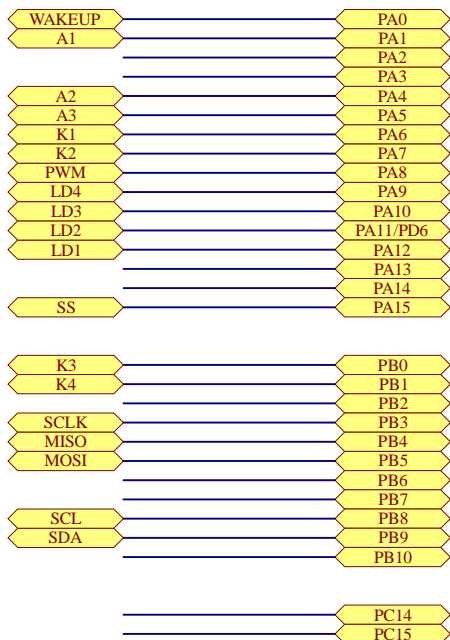


U3
MM32G0144C4PV(LQFP32)



Project Title		MB081_MiniBoard_MM32G0144C4PV	
Sheet Title		MB081-Mini-G0144	
Size	A4	Rev	B
Sheet	2	Checked	Li Hongpeng
Date	2023.06.15	Approved	Chen Do





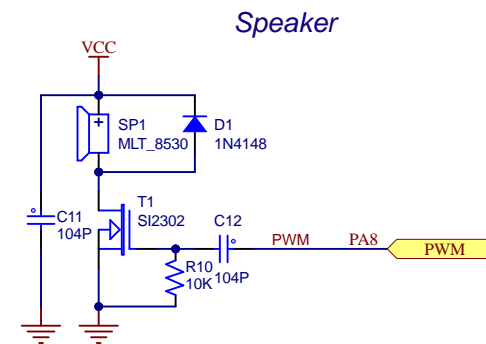
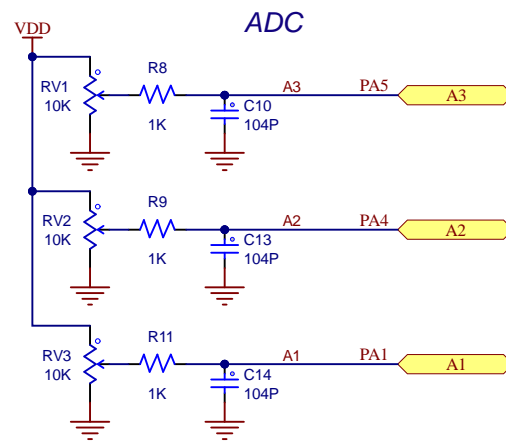
PA0/WKUP/UART2_CTS/TIM2_CH1/TIM2_ETR/SPI2_NSS/I2S2_WS/TIM2_CH3/COMP1_OUT/ADC1_VIN[0]
PA1/UART2_RTS/TIM2_CH2/ADC1_VIN[1]/COMP_INP[0]
PA2/UART2_TX/TIM2_CH3/SPI2_NSS/I2S2_WS/ADC1_VIN[2]/COMP_INP[1]
PA3/UART2_RX/TIM2_CH4/ADC1_VIN[3]/COMP_INP[2]
PA4/SPI1_NSS/I2S1_WS/TIM1_BKIN/TIM14_CH1/I2C_SDA/ADC1_VIN[4]/COMP_INP[3]
PA5/SPI1_SCK/I2S1_CK/TIM2_CH1/TIM2_ETR/TIM1_ETR/I2C_SCL/TIM1_CH3N/ADC1_VIN[5]/COMP_INM[0]
PA6/SPI1_MISO/I2S1_MCK/TIM3_CH1/TIM1_BKIN/UART2_RX/TIM1_ETR/TIM16_CH1/TIM1_CH3/COMP1_OUT/ADC1_VIN[6]/COMP_INM[1]
PA7/SPI1_MOSI/I2S1_SD/TIM3_CH2/TIM1_CH1N/TIM14_CH1/TIM17_CH1/TIM1_CH2N/TIM1_CH3N/ADC1_VIN[7]/COMP_INM[2]
PA8/MCO/TIM1_CH1/TIM1_CH2/TIM1_CH3
PA9/UART1_TX/TIM1_CH2/UART1_RX/I2C_SCL/MCO/TIM1_CH1N/TIM1_CH4/CAN_RX
PA10/TIM17_BKIN/UART1_RX/TIM1_CH3/UART1_TX/I2C_SDA/TIM1_CH1/SPI2_SCK/I2S2_CK/CAN_TX
PA11/UART3_TX/UART1_CTS/TIM1_CH4/CAN_RX/SPI2_MOSI/I2S2_SD/I2C_SCL/COMP1_OUT
PD6/TIM3_CH1/TIM1_BKIN/UART2_RX/TIM1_ETR/TIM16_CH1/TIM1_CH3/COMP1_OUT/ADC1_VIN[13]/COMP_INM[3]
PA12/UART3_RX/UART1_RTS/TIM1_ETR/CAN_TX/SPI2_MISO/I2S2_MCK/I2C_SDA/TIM1_CH2
PA13/SWDIO/UART1_TX/SPI2_MISO/I2S2_MCK/MCO/TIM1_CH2/TIM1_BKIN
PA14/SWCLK/UART2_TX/UART1_RX/SPI1_NSS/I2S1_WS
PA15/SPI1_NSS/I2S1_WS/UART2_RX/TIM2_CH1/TIM2_ETR

PB0/TIM3_CH3/TIM1_CH2N/TIM1_CH1N/TIM1_CH3/ADC1_VIN[8]
PB1/TIM14_CH1/TIM3_CH4/TIM1_CH3N/TIM1_CH4/TIM1_CH2N/MCO/TIM1_CH2/TIM1_CH1N/ADC1_VIN[9]
PB2
PB3/SPI1_SCK/I2S1_CK/TIM2_CH2/UART1_TX/TIM2_CH3/TIM1_CH1/TIM2_CH1/ADC1_VIN[10]
PB4/SPI1_MISO/I2S1_MCK/TIM3_CH1/UART1_RX/TIM17_BKIN/TIM1_CH2/TIM2_CH2/ADC1_VIN[11]
PB5/SPI1_MOSI/I2S1_SD/TIM3_CH2/TIM16_BKIN/MCO/TIM1_CH3/TIM2_CH3
PB6/UART1_TX/I2C_SCL/TIM16_CH1N/TIM2_CH1
PB7/UART1_RX/I2C_SDA/TIM17_CH1N/UART2_TX/ADC1_VIN[12]
PB8/I2C_SCL/TIM16_CH1/CAN_RX/UART2_RX
PB9/I2C_SDA/TIM17_CH1/CAN_TX/TIM1_CH4/SPI2_NSS/I2S2_WS
PB10/I2C_SCL/TIM2_CH3/UART3_TX/SPI2_SCK/I2S2_CK

PC14/TIM2_CH2
PC15/TIM2_CH3

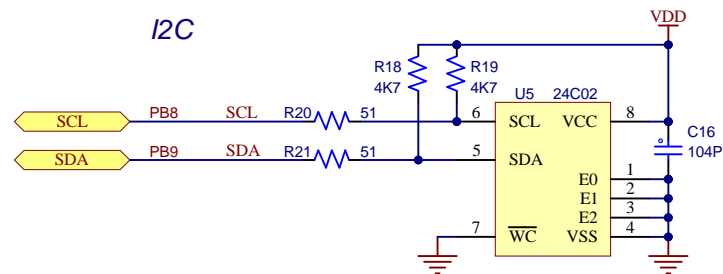
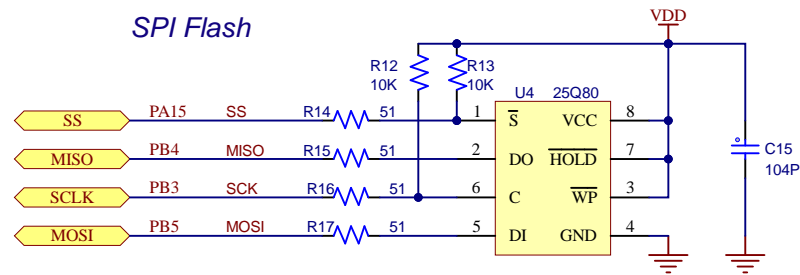
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Sheet Title		Connection					
Size	A4	Rev	B	Drawn	Lu Weiwei		
Sheet	3		8	Checked	Li Hongpeng		
Date	2023.06.15			Approved	Chen Do		





Project Title		MB081_Miniboard_MM32G0144C4PV	
Sheet Title		ADC&PWM	
Size	A4	Rev	B
Sheet	4		8
Date	2023.06.15	Checked	Li Hongpeng
		Approved	Chen Do

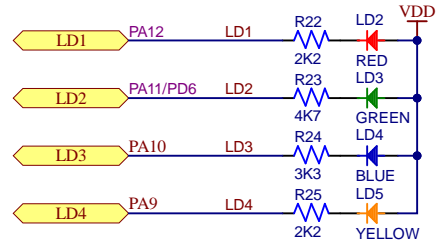




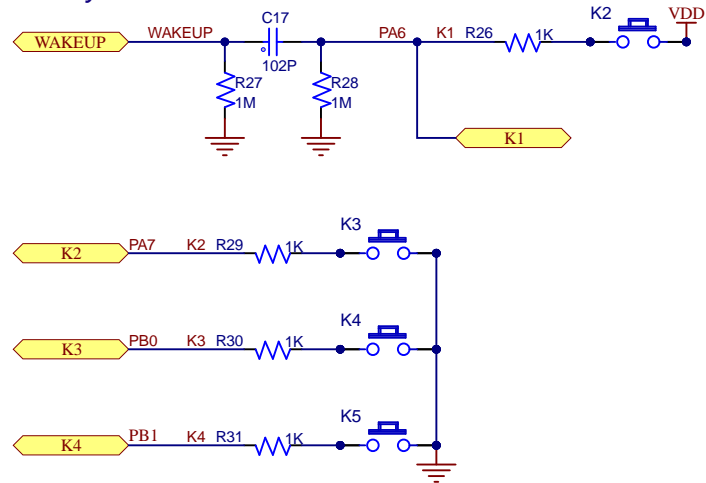
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Size	A4	Rev	B
Sheet	5	Checked	Li Hongpeng
Date	2023.06.15	Approved	Chen Do



LED



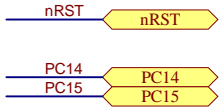
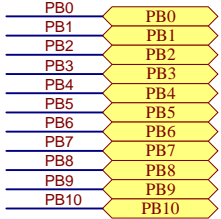
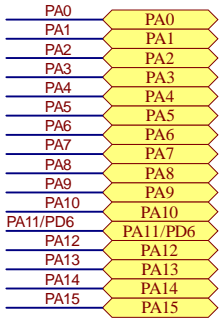
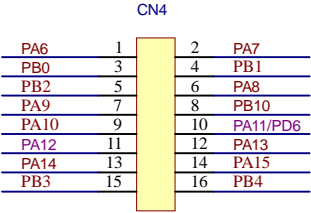
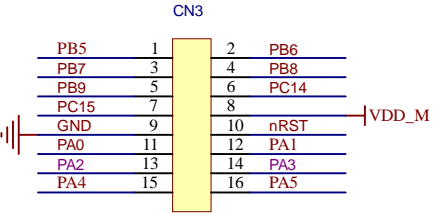
Key



Project Title		MB081_Miniboard_MM32G0144C4PV	
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Size	A4	Rev	B
Sheet	6	Checked	Li Hongpeng
Date	2023.06.15	Approved	Chen Do



GPIOs Interface




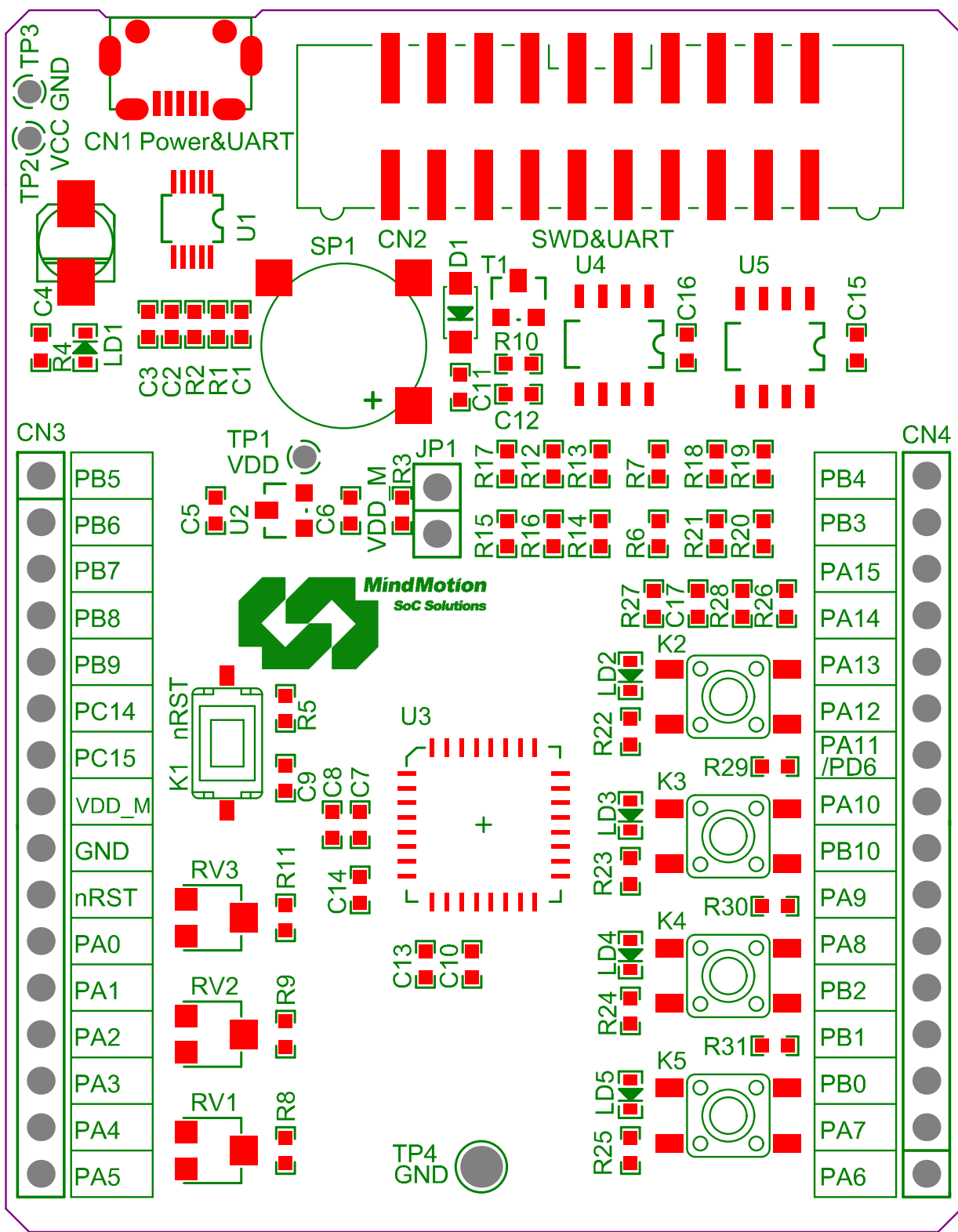
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MB081_Miniboard_MM32G0144C4PV			
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Size	A4	Rev	B
Sheet	7		8
Date	2023.06.15	Drawn	Lu Weiwei
		Checked	Li Hongpeng
		Approved	Chen Do



	1	2	3	4	
A	<div>MB081更改记录:</div> <div>1) CH340E工作电压改为3V3</div> <div>2) 添加R23(0R)电阻, JP1改为N/A</div> <div>3) 添加电容C15</div> <div>4) 1N4148更换SOD-123封装。</div> <div>5) PIN Package change</div> <div> PIN2 (PD6->PC14) 及其丝印</div> <div> PIN3 (NC->PC15) 及其丝印</div> <div> PIN20 (NC->PB10) 及其丝印</div> <div> PIN22 (PA11->PA11/PD6) 及其丝印</div> <div>6) 添加GND TEST POINT</div> <div>7) MM32G0141 替换为 MM32G0144</div>				A
B					B
C					C
D					D
1		2	3	4	

Project Title				MB081_Miniboard_MM32G0144C4PV			
Sheet Title				RevCtrl			
Size	A4	Rev	B	Drawn	Lu Weiwei		
Sheet	8	/	8	Checked	Li Hongpeng		
Date	2023.06.15			Approved	Chen Do		





MM3S MiniBoard

Minimotion
SoC Solutions



MM3SG0144C4P
Mini-G0144

REV.B
MB-081