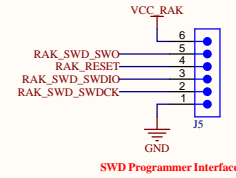


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## Pin map

RAK\_PB6 — RAK\_PB6  
RAK\_PB7 — RAK\_PB7

RAK\_UART1 is used for programming and debugging purposes.

RAK\_PA2 — RAK\_PA2  
RAK\_PA3 — RAK\_PA3

RAK\_UART2 is connected to EM2050.

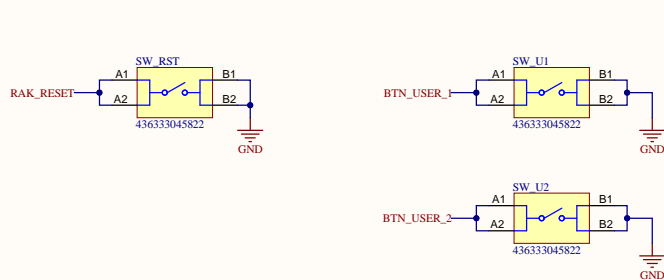
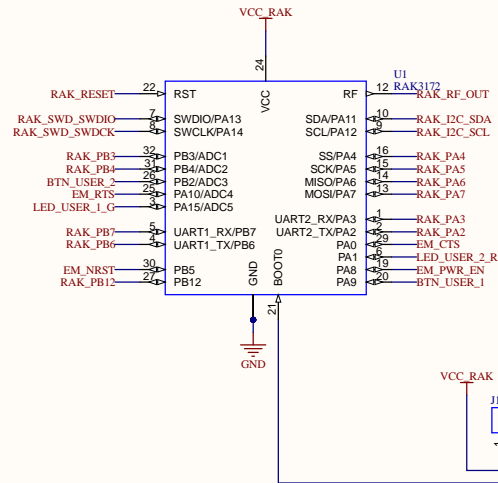
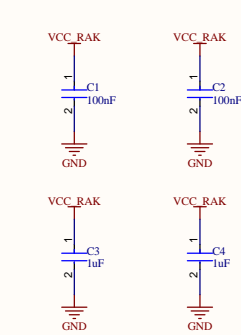
RAK\_I2C\_SDA — RAK\_I2C\_SDA  
RAK\_I2C\_SCL — RAK\_I2C\_SCL

RAK\_PA4 — RAK\_PA4  
RAK\_PA5 — RAK\_PA5  
RAK\_PA6 — RAK\_PA6  
RAK\_PA7 — RAK\_PA7

LED\_USER\_1\_G — LED\_USER\_1\_G  
LED\_USER\_2\_R — LED\_USER\_2\_R  
BTN\_USER\_1 — BTN\_USER\_1  
BTN\_USER\_2 — BTN\_USER\_2

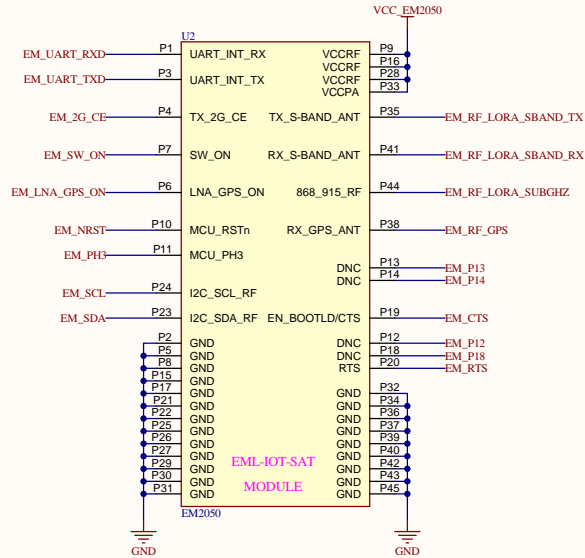
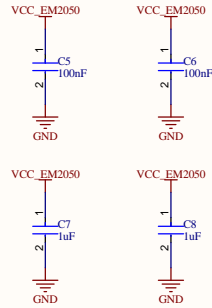
EM\_Nrst — EM\_Nrst  
EM\_CTS — EM\_CTS  
EM\_RTS — EM\_RTS  
EM\_Pwr\_En — EM\_Pwr\_En


This jumper, J1, allows activation of the RAK RUI3 firmware recovery feature by shorting pin 1 and 2. Shorting pin 2 and 3 will enable the use of this pin as SWO (SWD) or GPIO.



PROJECT NAME	ApolloEcho_Dev_Kit	AUTHOR	mtnguyen
TITLE	RAK3172		
Rev	2.0.0	Date	Mar 01, 25
FILE NAME	RAK3172.SchDoc		
SHEET 1 OF 6			LEAT

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PROJECT NAME ApolloEcho_Dev_Kit		AUTHOR mtnguyen	
TITLE  <b>EM2050</b>			
Rev. 2.0.0	Date Mar 01, 25		
FILE NAME EM2050.SchDoc		SHEET 2	OF 6

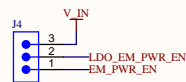
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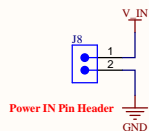
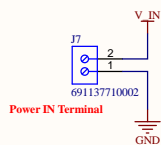
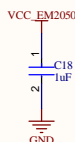
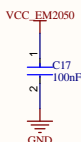
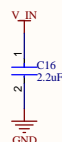
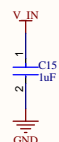
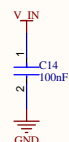
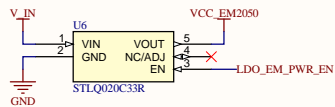
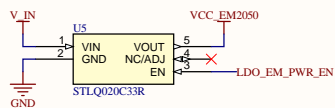
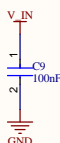
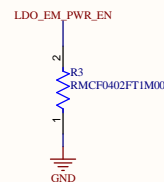
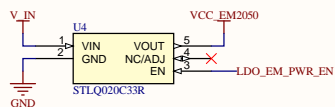
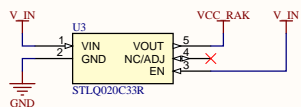
D




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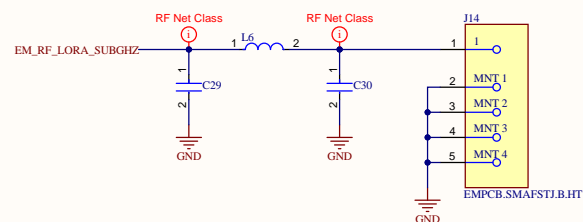
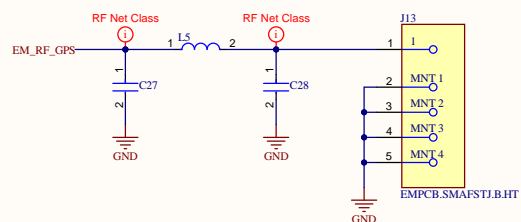
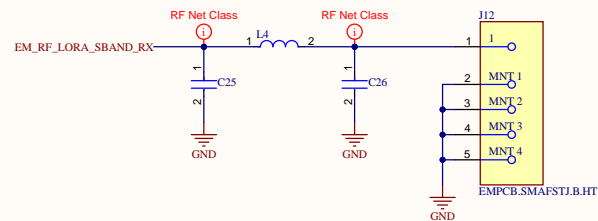
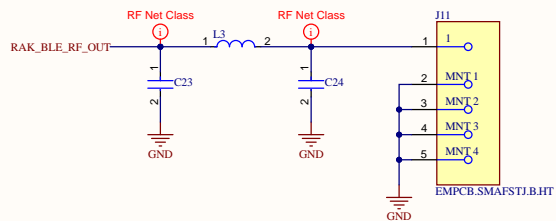
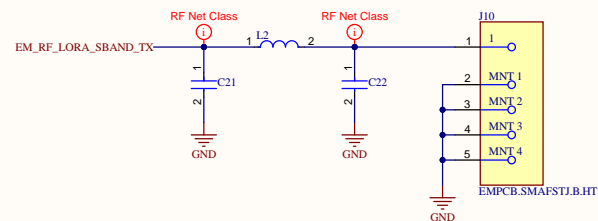
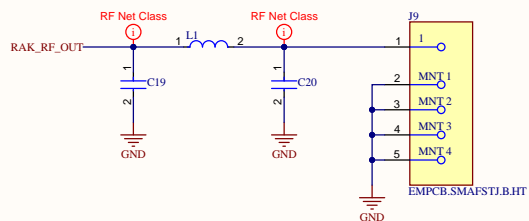



This jumper, J4, is for selecting the LDO\_EM\_PWR\_EN driving source. Shorting pin 1 & 2 will allow the RAK11720 to enable the power of the EM2050. The EM2050 will always be on if pin 2 & 3 are shorted.



PROJECT NAME ApolloEcho_Dev_Kit		AUTHOR mtnguyen	
TITLE  <b>Power</b>			
Rev 2.0.0	Date Mar 01, 25		
FILE NAME Power.SchDoc			
		SHEET 4 OF 6	

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PROJECT NAME		ApolloEcho_Dev_Kit		AUTHOR		mtnguyen	
TITLE							
Rev		2.0.0		Date		Mar 01, 25	
FILE NAME				RF.SchDoc			
SHEET				5		OF 6	

D

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