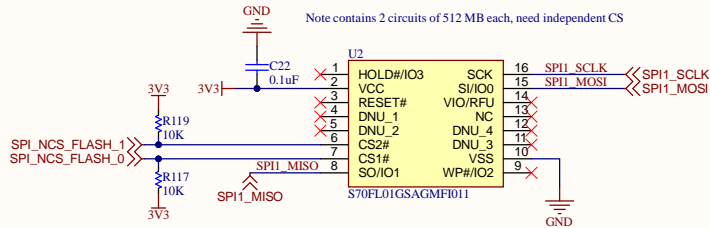


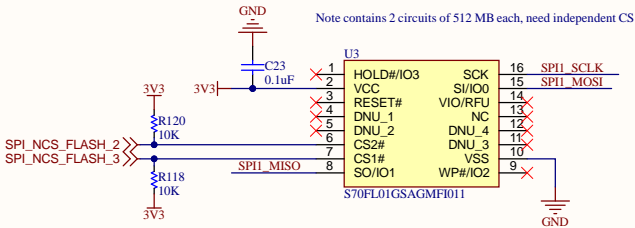


# Flash Memory

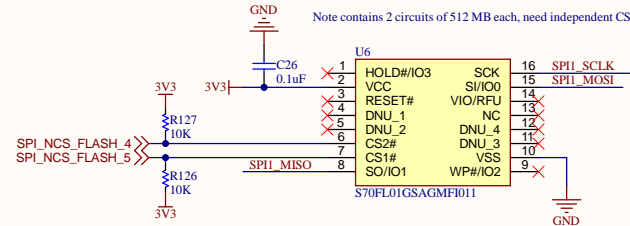
Can use as alternative (stock) S70FL01GSDPMFV010, halves the frequency (133 to 66 MHz)



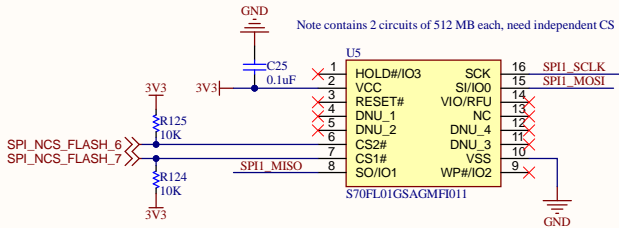
Voltage: 3V3, Max current: 90 mA  
Voltage: 3V3, Typical Standby current: 140 uA



Voltage: 3V3, Max current: 90 mA  
Voltage: 3V3, Typical Standby current: 140 uA

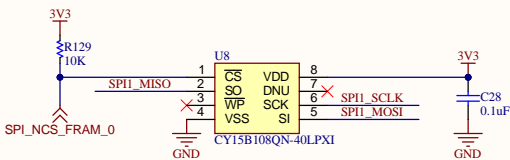


Voltage: 3V3, Max current: 90 mA  
Voltage: 3V3, Typical Standby current: 140 uA

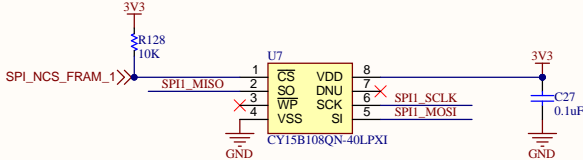


Voltage: 3V3, Max current: 90 mA  
Voltage: 3V3, Typical Standby current: 140 uA

# FRAM Memory



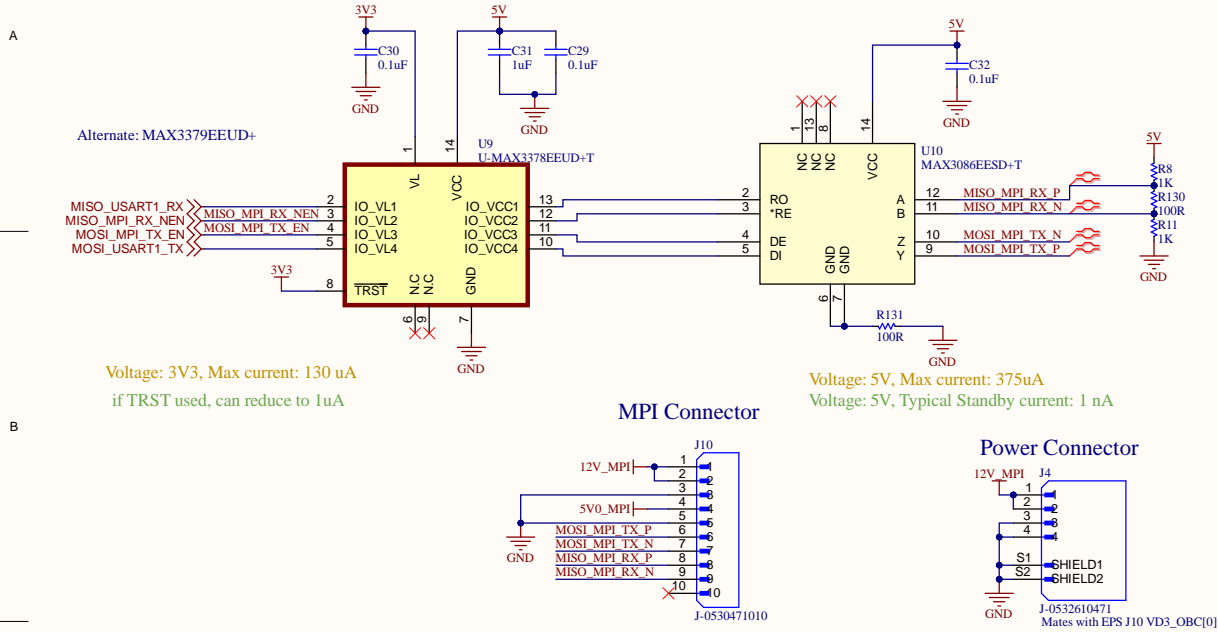
Voltage: 3V3, Typical current: 2.6 mA  
Voltage: 3V3, Typical Standby current: 3.5 uA



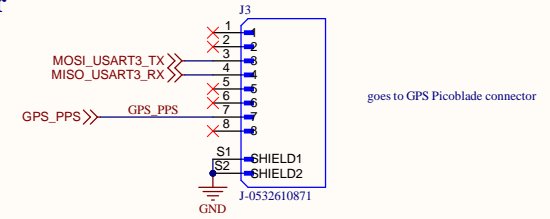
Voltage: 3V3, Typical current: 2.6 mA  
Voltage: 3V3, Typical Standby current: 3.5 uA

Title		
Memory		
Size	Number	Revision
A3		
Date:	2-27-2024	Sheet of
File:	C:\Users\I.Memory.SchDoc	Drawn By: James Chen
	7	8

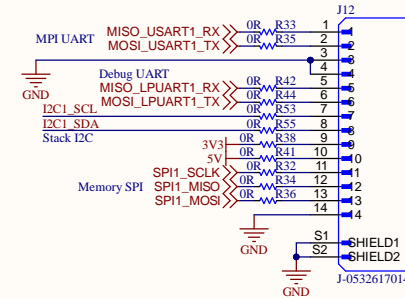
## MPI RS422 Transceiver + Connector



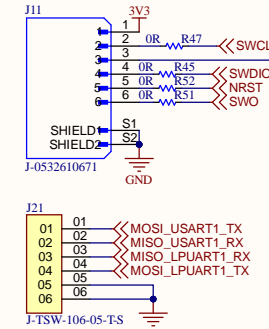
## GPS connector



## Umbilical connector



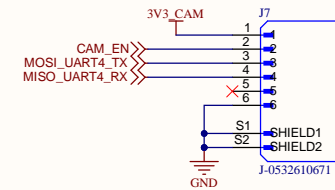
## Programming Connector



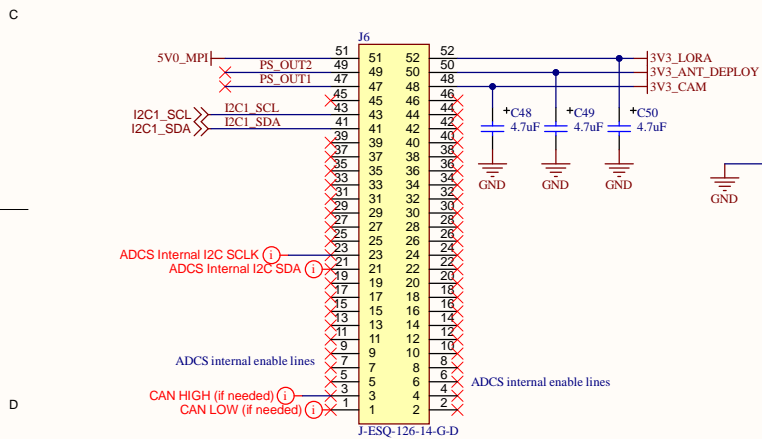
## Voltage Indicator LEDs



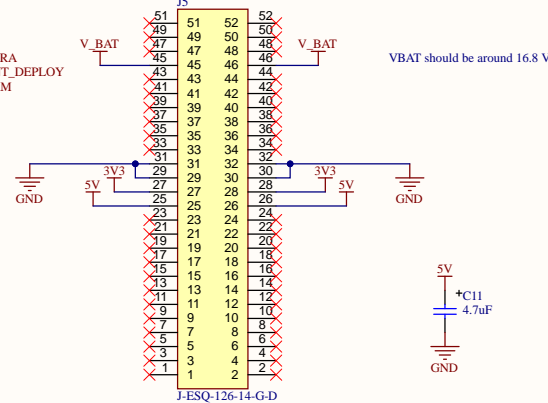
## Camera Connector



## H1 PC104 Connector



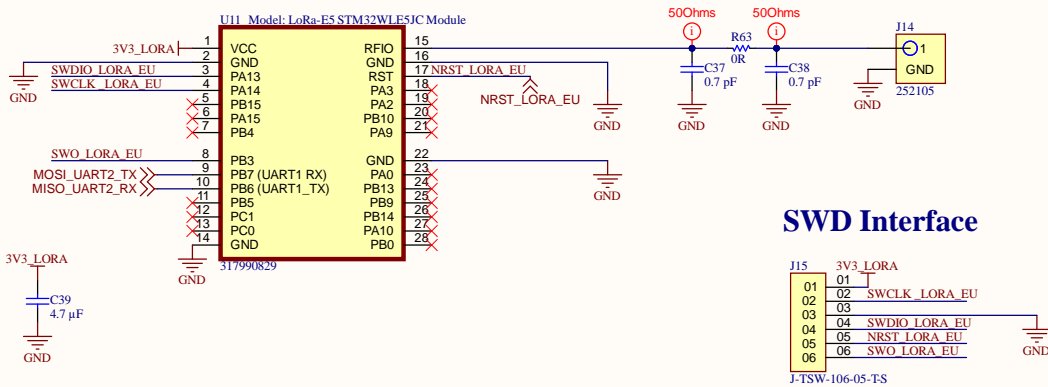
## H2 PC104 Connector



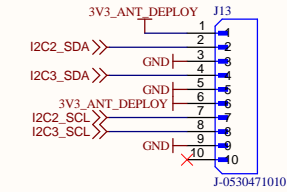
## External Connectors

Size	Number	Revision
A3		
Date:	2-27-2024	Sheet of
File:	C:\Users\...\External Connectors Sch	Drawn By: James Chen

# LoRa WAN US915 + Antenna

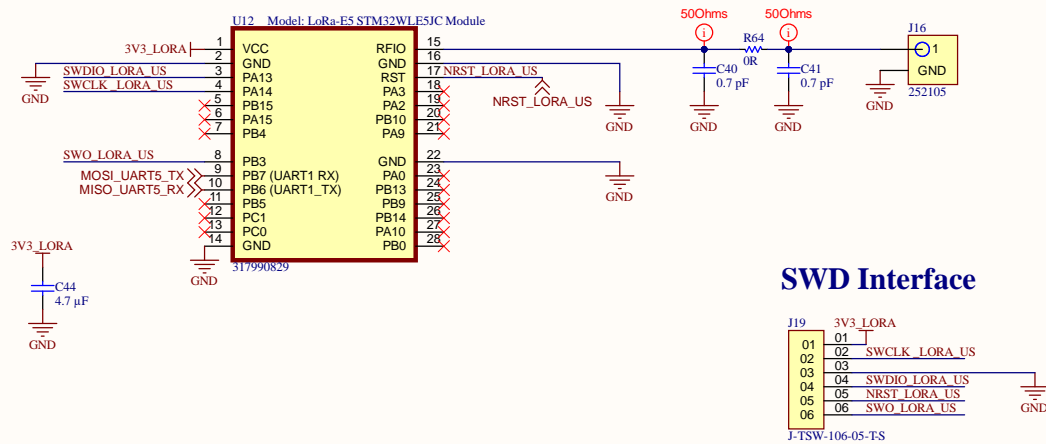


# Antenna Deploy Connector (9 pin)

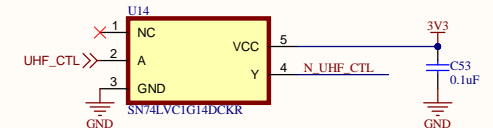


Voltage: 3V3, Typical Standby current: 13 mA  
2W system, 3V3, ~600mA Activated in deployment

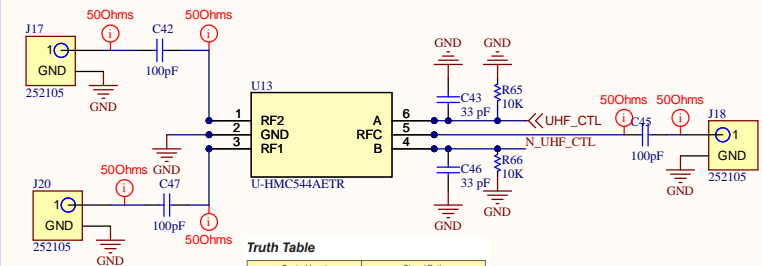
# LoRa WAN EU868 + Antenna



# UHF Dipole Switch



SN74LVC1G14DCKR is an inverter  
UHF\_CTL HIGH=RF2 Active, Low=RF1 Active

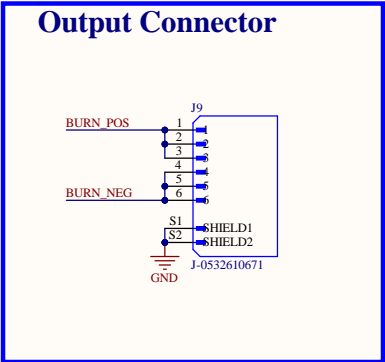
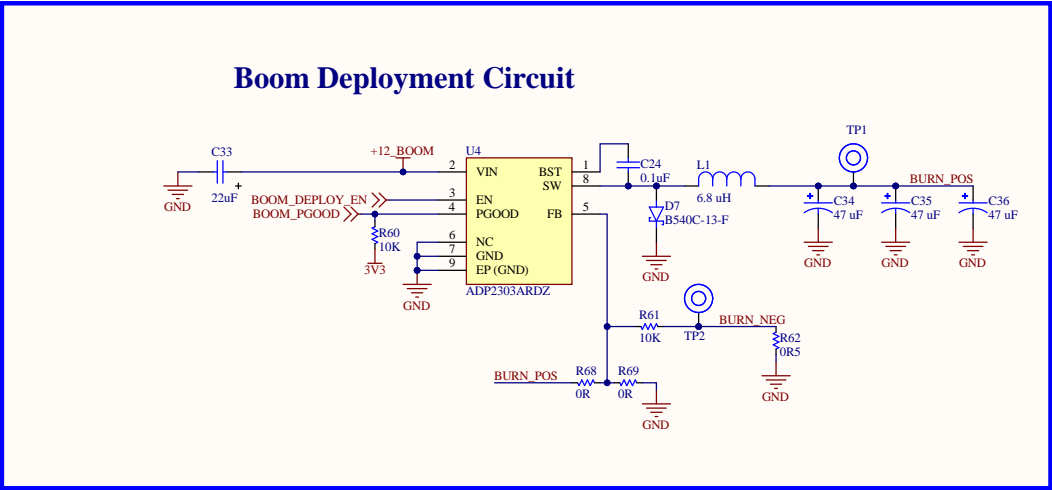
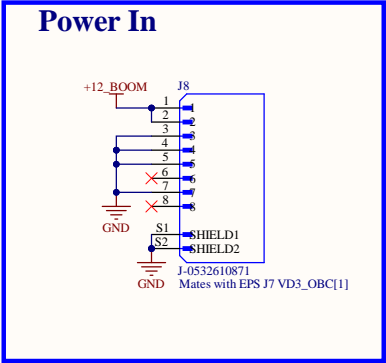


Truth Table

Control Input		Signal Path	
A	B	RFC to RF1	RFC to RF2
Low	High	On	Off
High	Low	Off	On

# Antenna and Lora

Size	Number	Revision
A3		
Date:	2-27-2024	Sheet of
File:	C:\Users\...Antenna and LoRa.SchDot	Drawn By: James Chen



Title		
Boom Control		
Size	Number	Revision
A3		
Date:	2-27-2024	Sheet of
File:	C:\Users\j\Boom Control.SchDoc	Drawn By: James Chen

