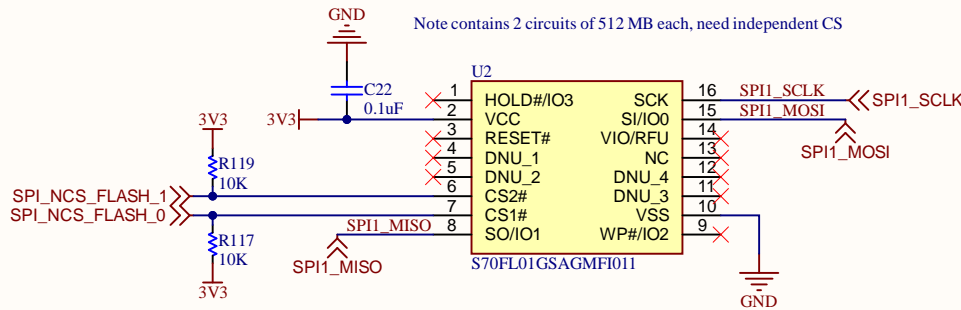
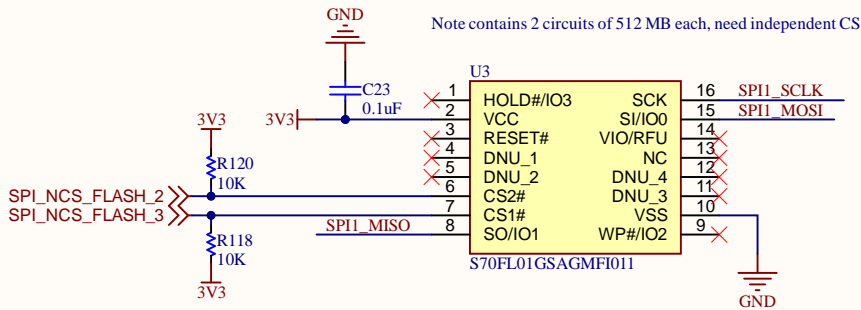


Flash Memory

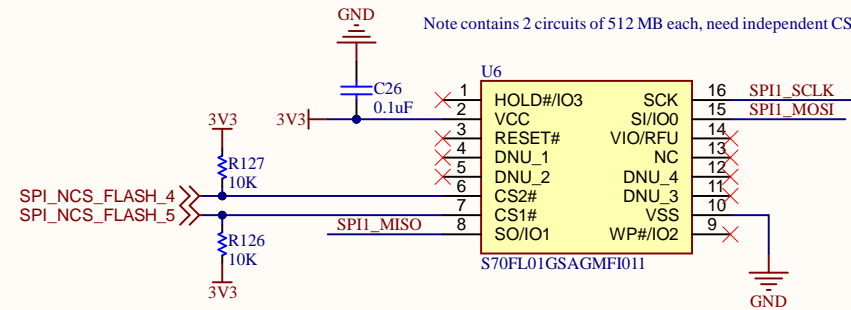
Can use as alternative (stock) S70FL01GSDPMFV010, halves the frequency (133 to 66 MHz)



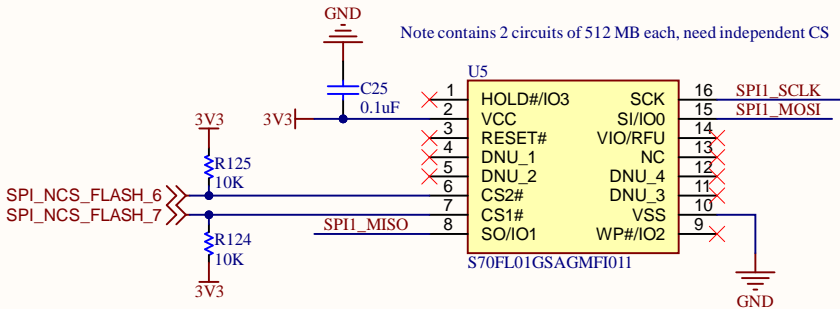
Voltage: 3V3, Max current: 90 mA
Voltage: 3V3, Typical Standby current: 140 uA



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

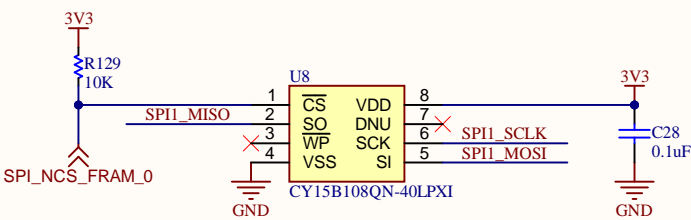


Voltage: 3V3, Max current: 90 mA
Voltage: 3V3, Typical Standby current: 140 uA

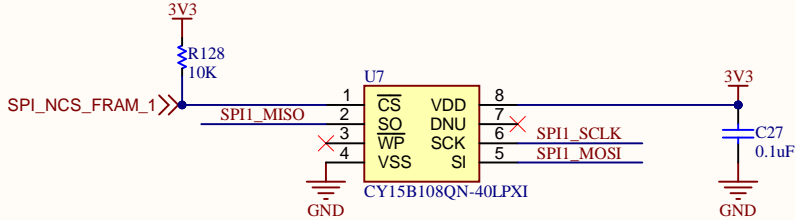


Voltage: 3V3, Max current: 90 mA
Voltage: 3V3, Typical Standby current: 140 uA

FRAM Memory



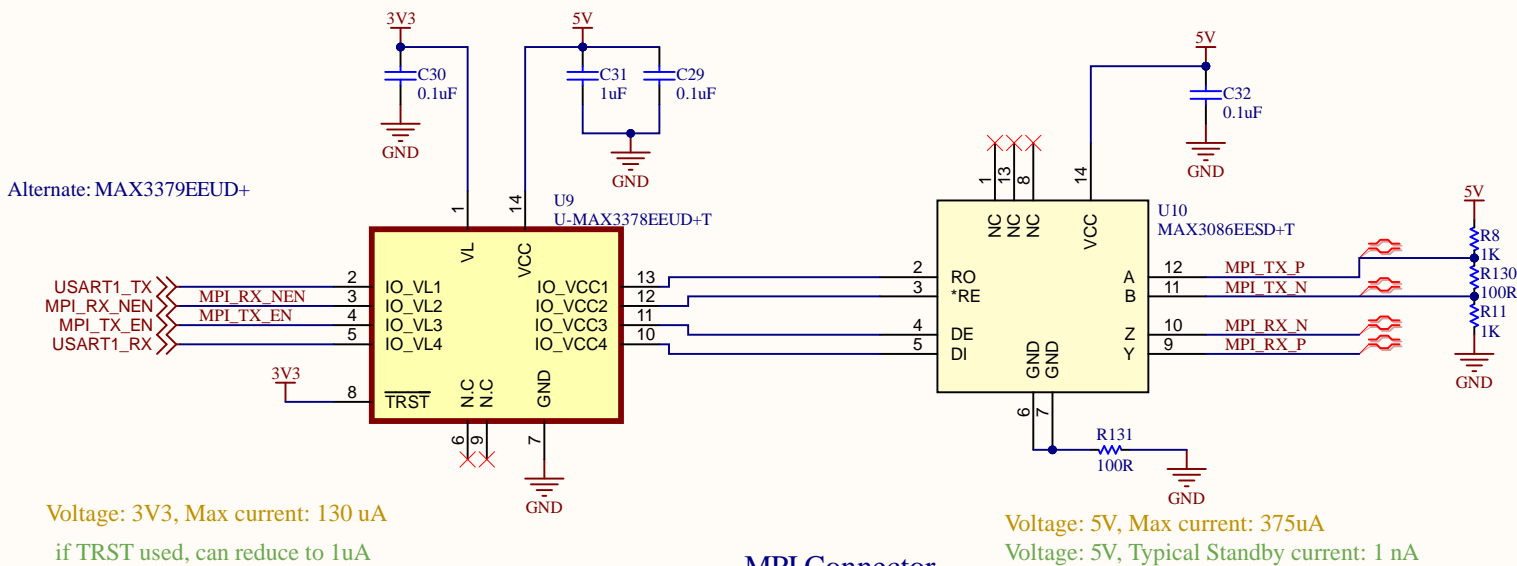
Voltage: 3V3, Typical current: 2.6 mA
Voltage: 3V3, Typical Standby current: 3.5 uA



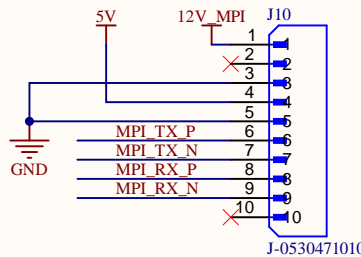
Voltage: 3V3, Typical current: 2.6 mA
Voltage: 3V3, Typical Standby current: 3.5 uA

Title		
Memory		
Size	Number	Revision
A3		
Date:	5-08-2023	Sheet of
File:	C:\Users\...\Memory.SchDoc	Drawn By: James Chen

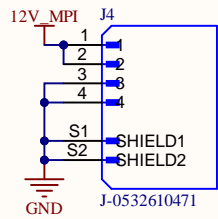
MPI RS422 Transceiver + Connector



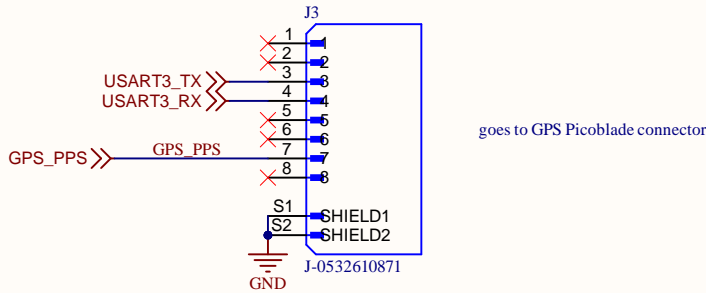
MPI Connector



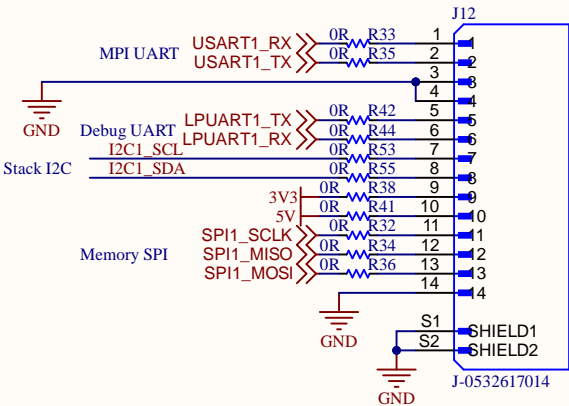
Power Connector



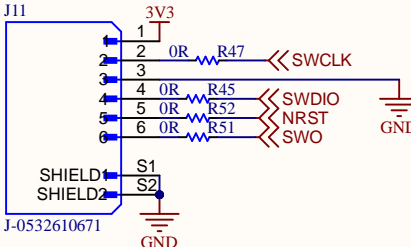
GPS connector



Umbilical connector



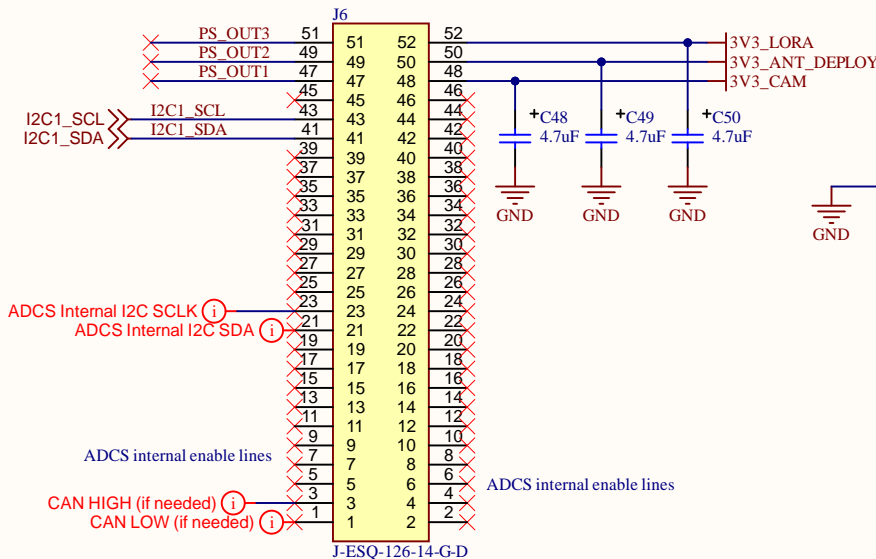
Programming Connector



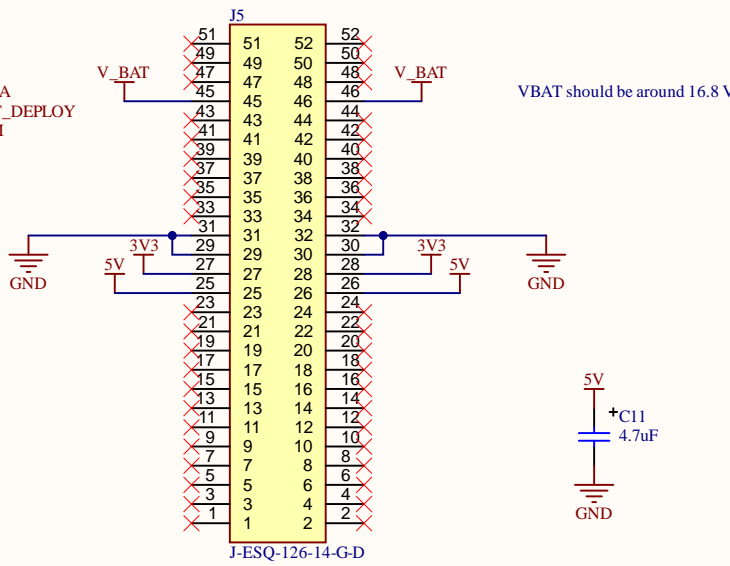
Voltage indicator LED's



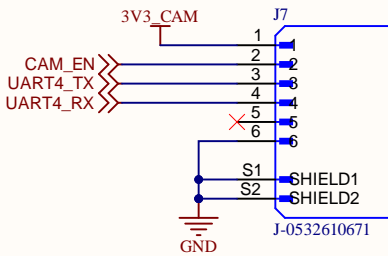
H1 PC104 Connector



H2 PC104 Connector

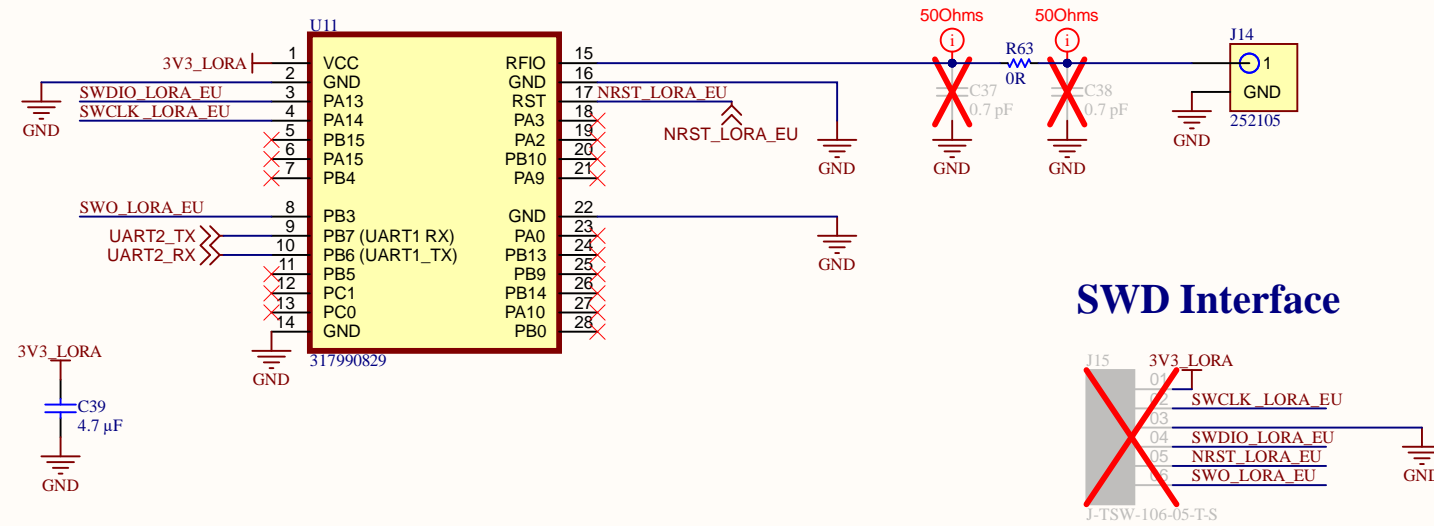


Camera Connector

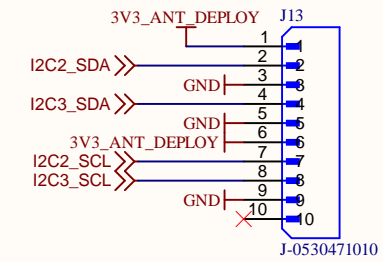


Title		
External Connectors		
Size	Number	Revision
A3		
Date:	5-08-2023	Sheet of
File:	C:\Users\...\External Connectors.SchDoc	Drawn By: James Chen

LoRa WAN US915 + Antenna



Antenna Connector (9 pin)

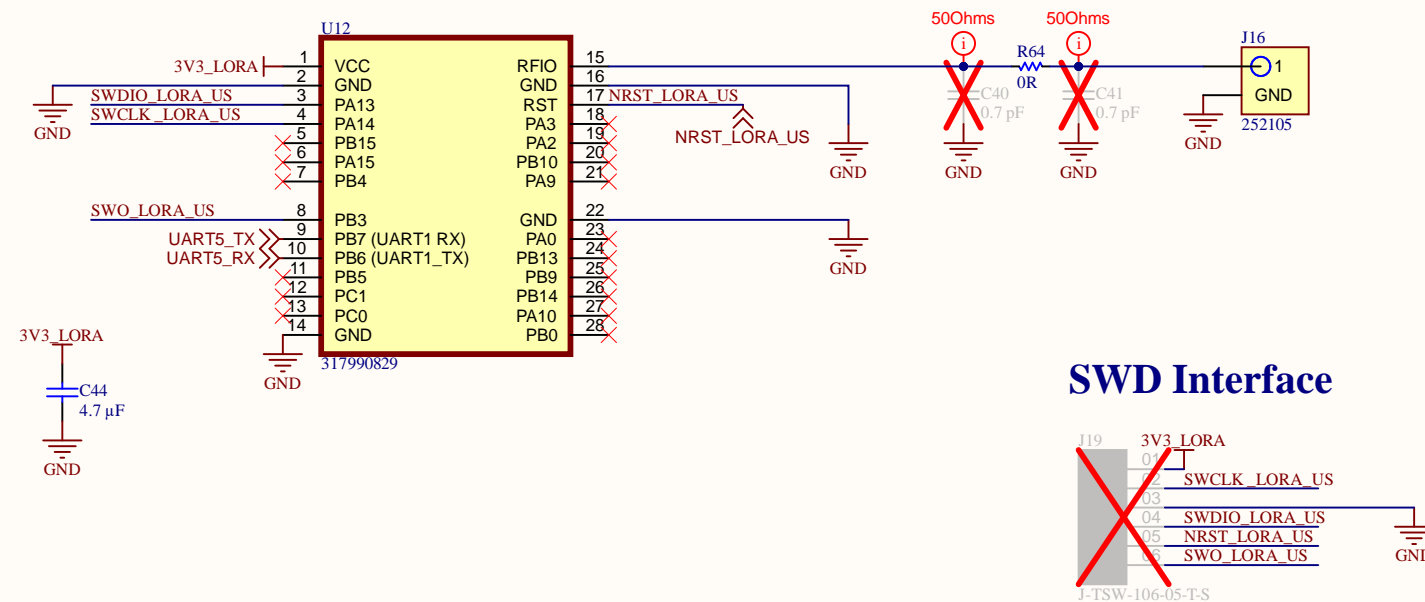


Two I2C? Duplicate and connect it?

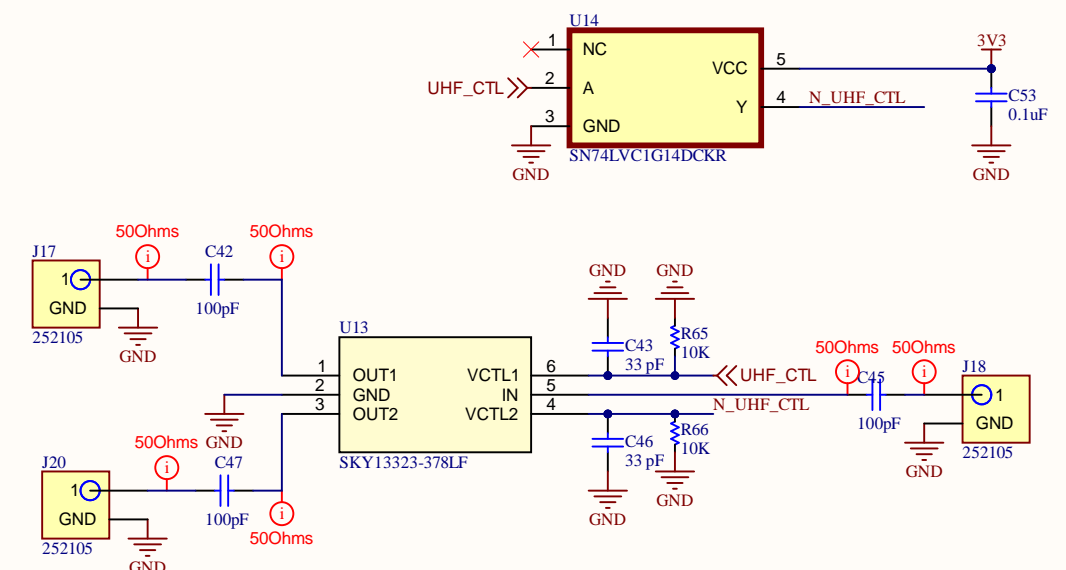
Voltage: 3V3, Typical Standby current: 13 mA

2W system, 3V3, ~600mA Activated in deployment

LoRa WAN EU868 + Antenna



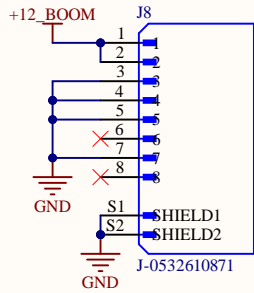
UHF Dipole Switch



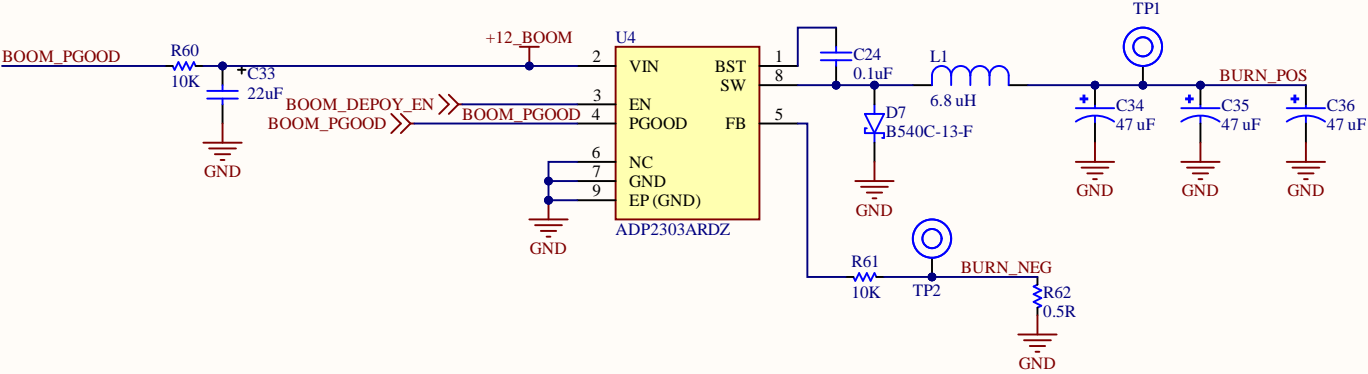
Antenna Deployment

Size A3	Number	Revision
Date:	5-08-2023	Sheet of
File:	C:\Users\...\Antenna and LoRa.SchDoc	Drawn By: James Chen

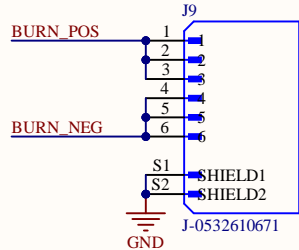
Power In



Boom Deployment Circuit



Output Connector



Title Motor Control		
Size A3	Number	Revision
Date: 5-08-2023	Sheet of	
File: C:\Users\...\Boom Deployment.SchDoc	Drawn By: James Chen	