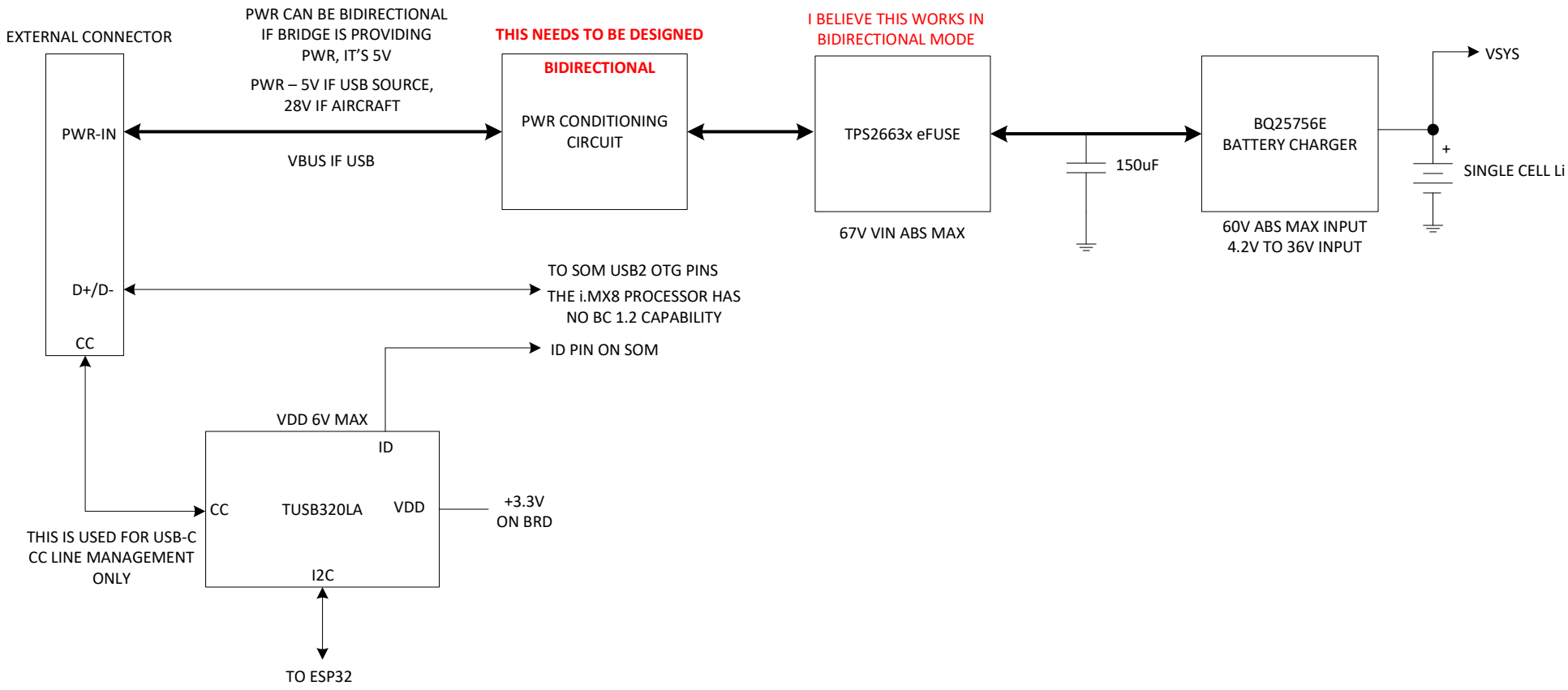
EXTERNAL CONNECTOR
PWR CAN BE BIDIRECTIONAL
IF BRIDGE IS PROVIDING
PWR, IT'S 5V
THIS NEEDS TO BE DESIGNED
BIDIRECTIONAL
I BELIEVE THIS WORKS IN
BIDIRECTIONAL MODE
VSYS
PWR – 5V IF USB SOURCE,
28V IF AIRCRAFT
PWR-IN
PWR CONDITIONING
CIRCUIT
TPS2663x eFUSE
BQ25756E
BATTERY CHARGER
VBUS IF USB
150uF
SINGLE CELL Li
67V VIN ABS MAX
60V ABS MAX INPUT
4.2V TO 36V INPUT
TO SOM USB2 OTG PINS
D+/D-
THE i.MX8 PROCESSOR HAS
NO BC 1.2 CAPABILITY
CC
ID PIN ON SOM
VDD 6V MAX
ID
CC
TUSB320LA
VDD
+3.3V
ON BRD
THIS IS USED FOR USB-C
CC LINE MANAGEMENT
ONLY
I2C
TO ESP32