

Note: Remove 10K resistor (R9) if you dont want the USB plugging in to disable the VCC Power In

**WARNING: DO NOT use LONG USB CABLES to power the device.**

They use thin, long wires and will create a substatial voltage drop making the 5V supply line TOO LOW.

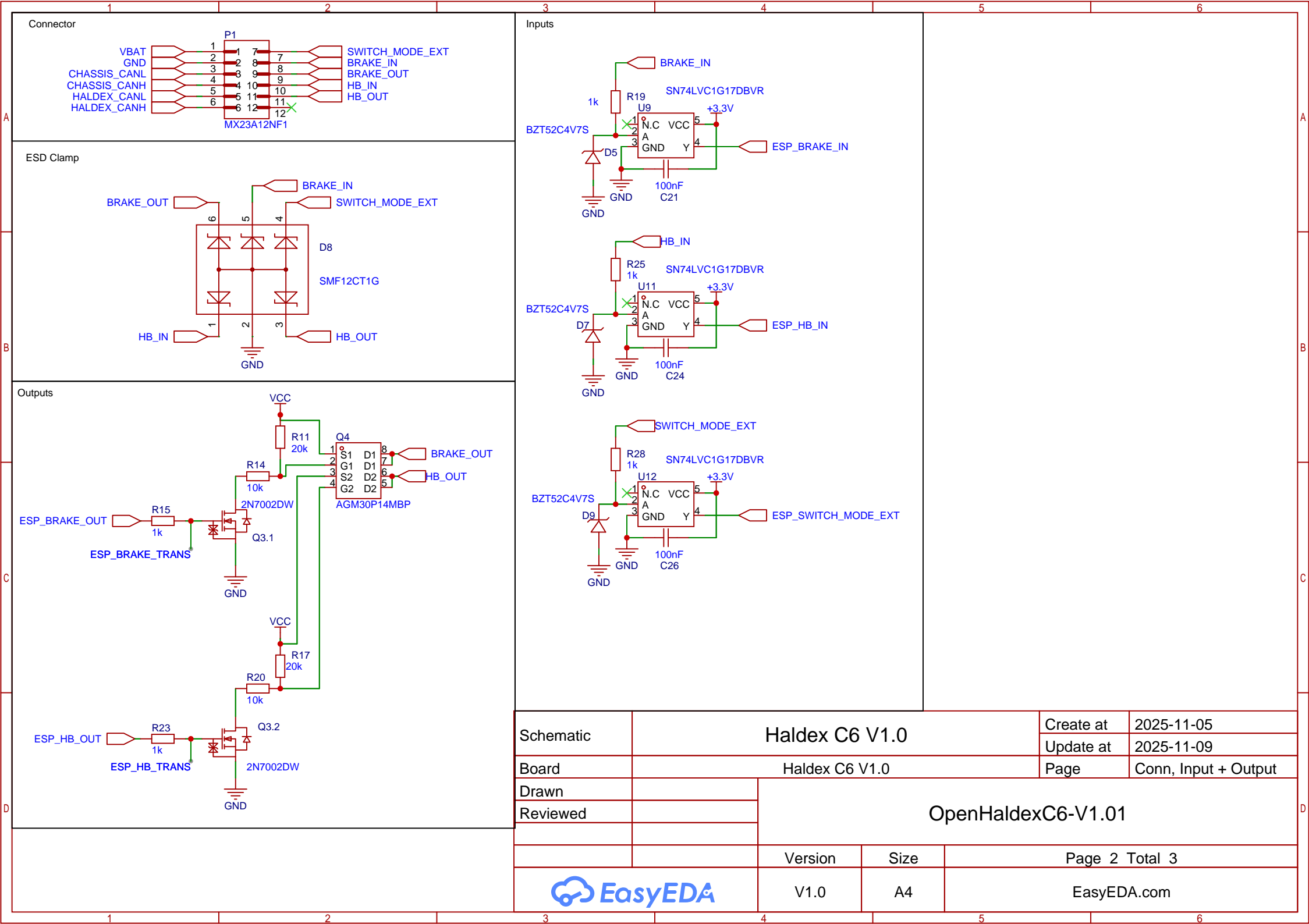
If you MUST use a long USB cable remove R9 and power the module from 12V source via the PWR in and GND pins on the connector

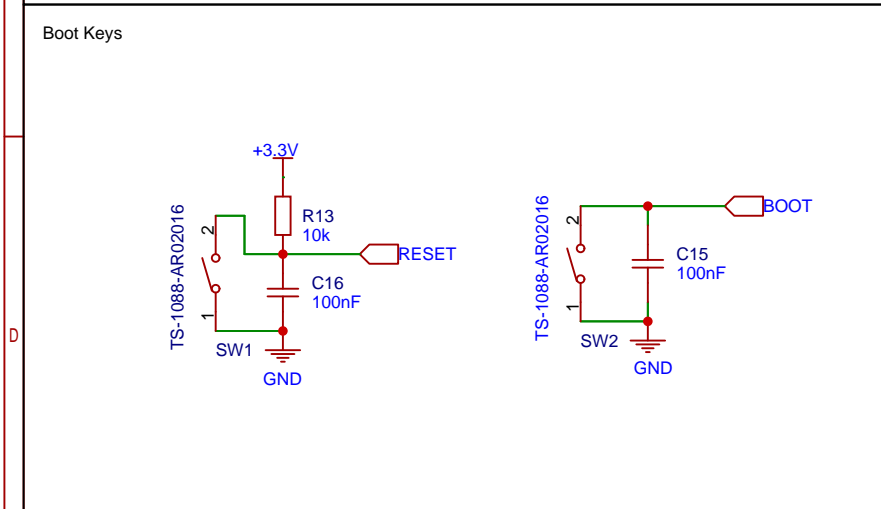
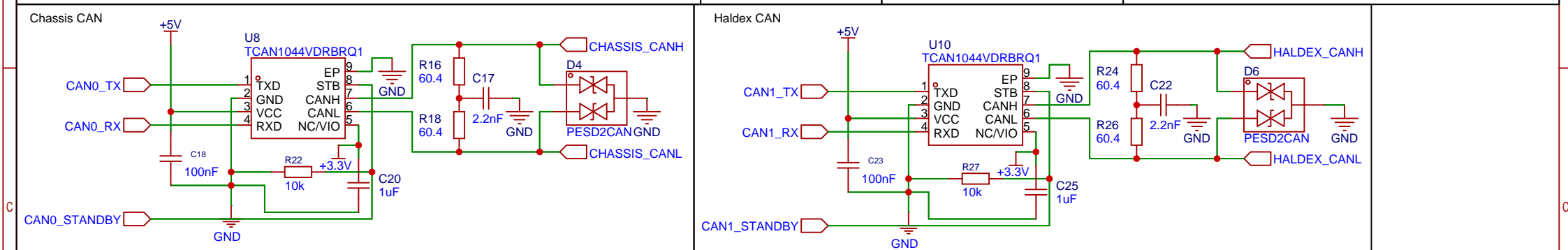
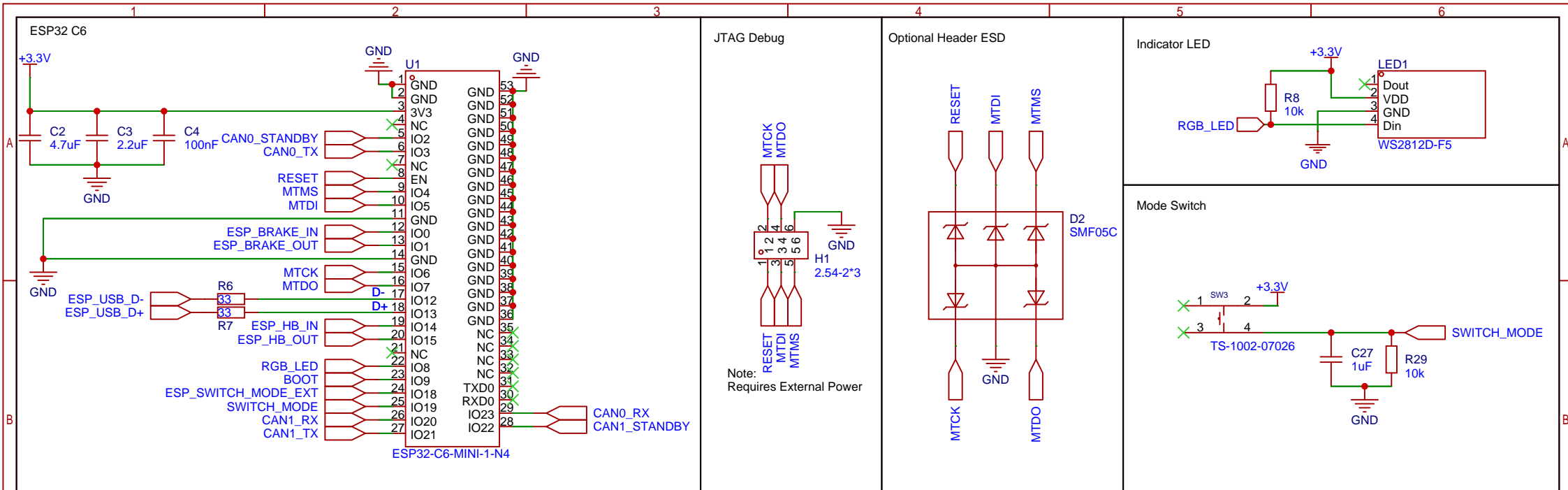
The lower limit on the 5V line is 4.5V due to the LDO dropout voltage and the CAN tranciver both needing 4.5V minimum to work correctly


Measure between the 5V and GND test points on the board to verify voltage

You can measure USB voltage before protection diode on VBUS test point

Schematic	Haldex C6 V1.0		Create at	2025-11-05
Board	Haldex C6 V1.0		Update at	2025-11-09
Drawn			Page	Power +USB
Reviewed			OpenHaldexC6-V1.01	
		Version	Size	Page 1 Total 3
		V1.0	A4	EasyEDA.com





Schematic	Haldex C6 V1.0			Create at	2025-11-05
				Update at	2025-11-05
Board	Haldex C6 V1.0			Page	MCU + CANBUS
Drawn		OpenHaldexC6-V1.01			
Reviewed					
		Version	Size	Page 3 Total 3	
		V1.0	A4	EasyEDA.com	