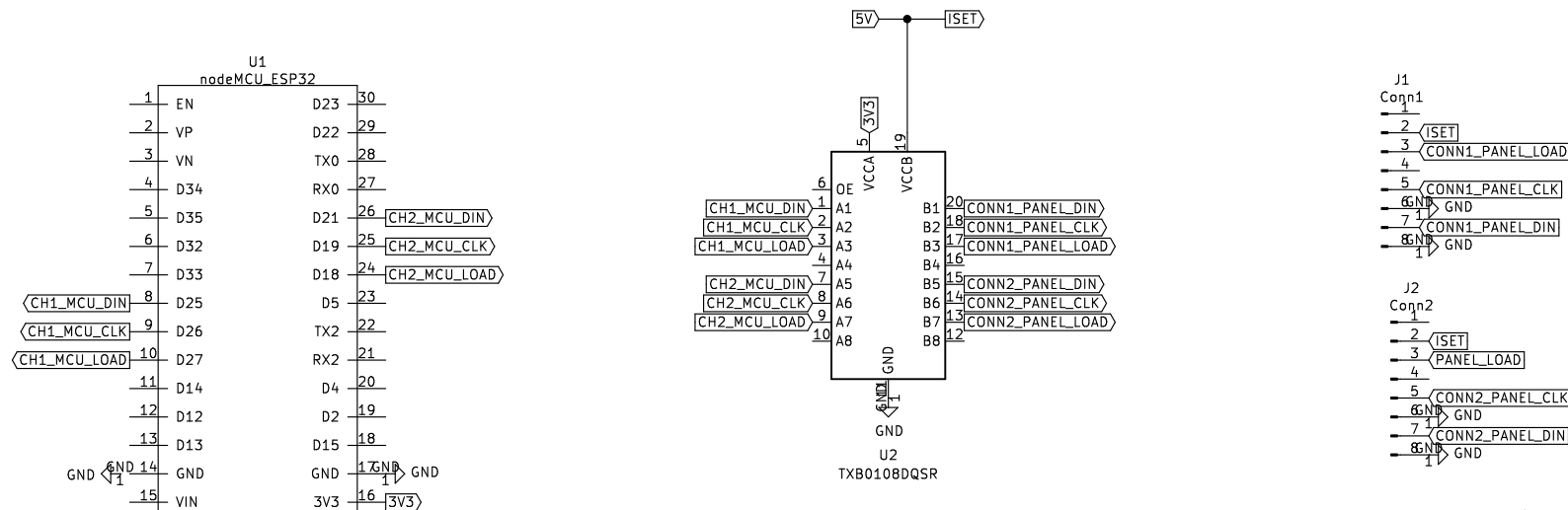


NOTE: The panel seems to work best with signals of 3V6 so using a buck to control the level shifter 5V till you get a signal (CLK,DIN,LOAD) which is 3V6 appears to work most reliably.



NOTE: I used a cheap 8 channel level shifter module from China. There's nothing in KICAD for that so I used the symbol shown.

Connectors are 2.54mm male pin header.  
The panel ribbon cables need the driving end DIN connector removed and soldered to a female header.  
Pin 1 corresponds to the red stripe on the ribbon cable

Author: Brian Norman

Connected Humber

Sheet: /

File: Level Shifter.sch

Title: BUS Panel Driver/Interface

Size: A4 Date: 2020-06-12

KiCad E.D.A. kicad (5.1.0)-1

Rev: 1.0

Id: 1/1