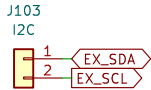
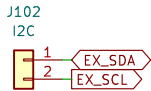


I2C pull-up may be between 4.7k and 10k ohm.

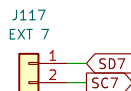
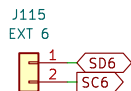
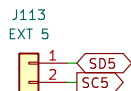
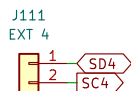
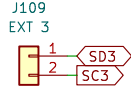
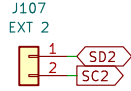
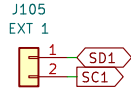
LED Matrix

774k: led-matrix.kicad\_sch

#### EXTERNAL I2C BUS

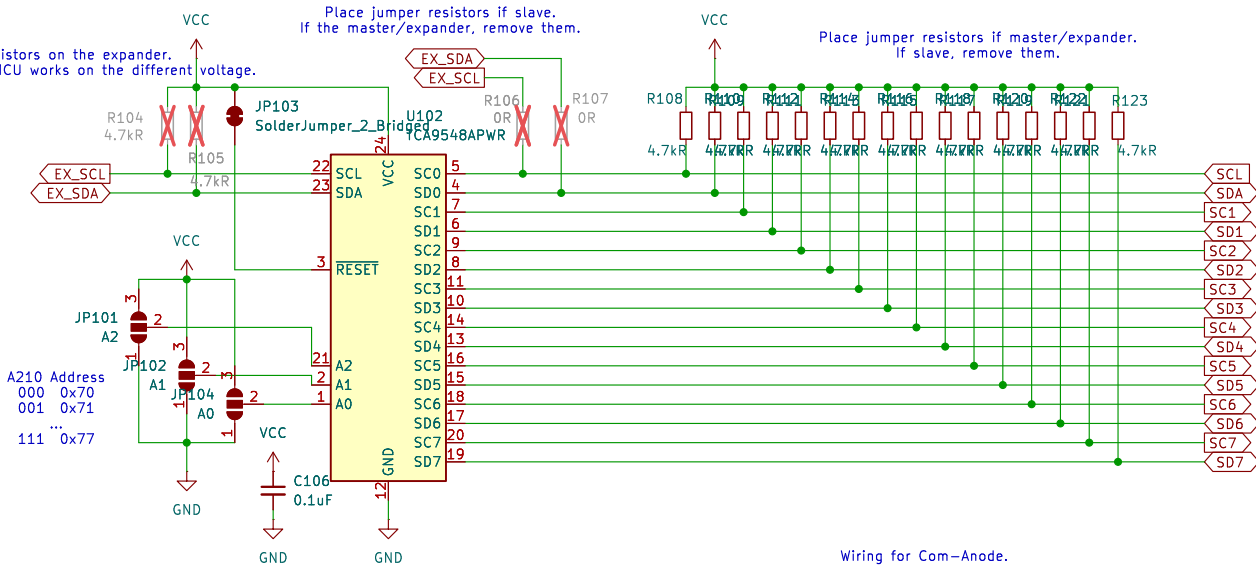


#### INTERNAL (EXPANDED) I2C BUS

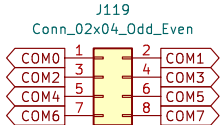
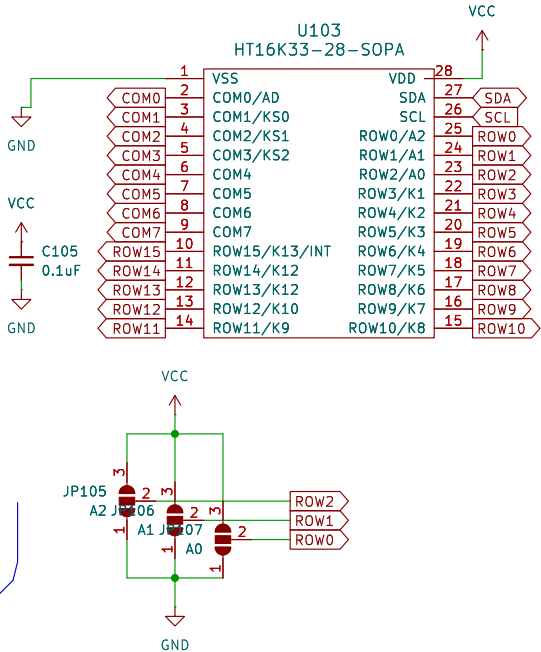


Place pull-up resistors on the expander.  
Remove the resistors if the MCU works on the different voltage.

VDD 1.65V to 5.5V



VDD min. 4.5V, max. 5.5V  
practically min. 3.3V



design by Hijiri Umamoto  
UMEMOTO LLC  
Sheet: /  
File: 20250526-7seg-panel-ht16k33a.kicad\_sch

#### Title: 7-seg LED panel

Size: A3  
Date: 2025-05-21  
KiCad E.D.A. 8.0.8

Rev: 0.1  
Id: 1/2

