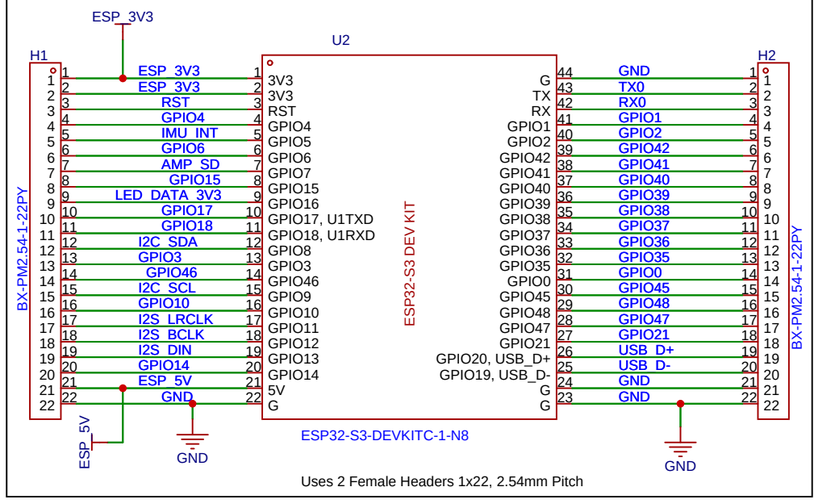
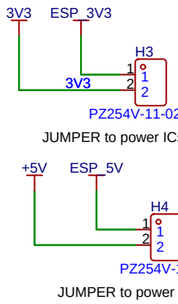
ESP32-S3-DEVKIT

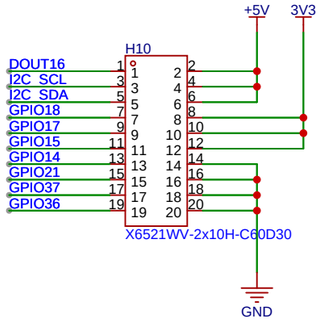


Uses 2 Female Headers 1x22, 2.54mm Pitch

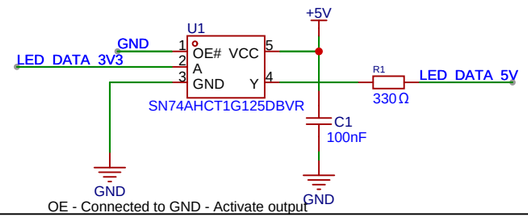
POWER JUMPERS



OUTPUT CONNECTORS

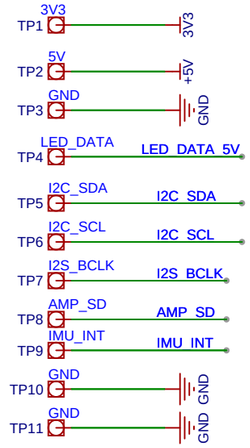


SN74AHCT1G125DBVR LEVEL SHIFTER

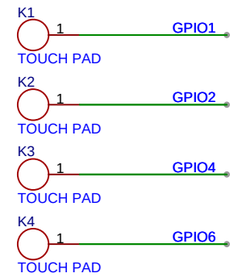


OE - Connected to GND - Activate output

TEST POINTS

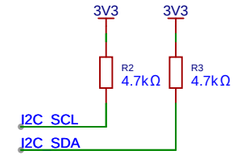


TOUCH PADS

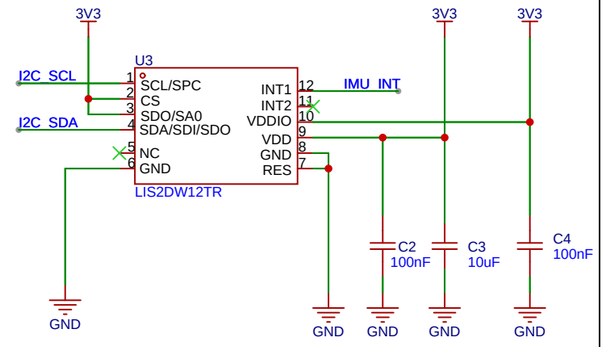


Touch pad size : 15mm × 15mm bare copper
Guard ring: 1mm ground ring around each pad

I2C PULL-UPS

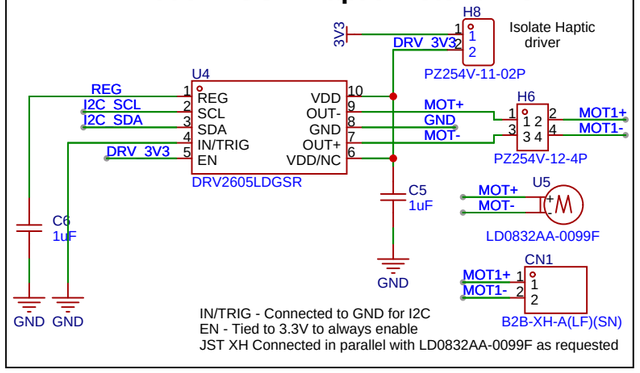


LIS2DW12TR - 3-AXIS ACCELEROMETER



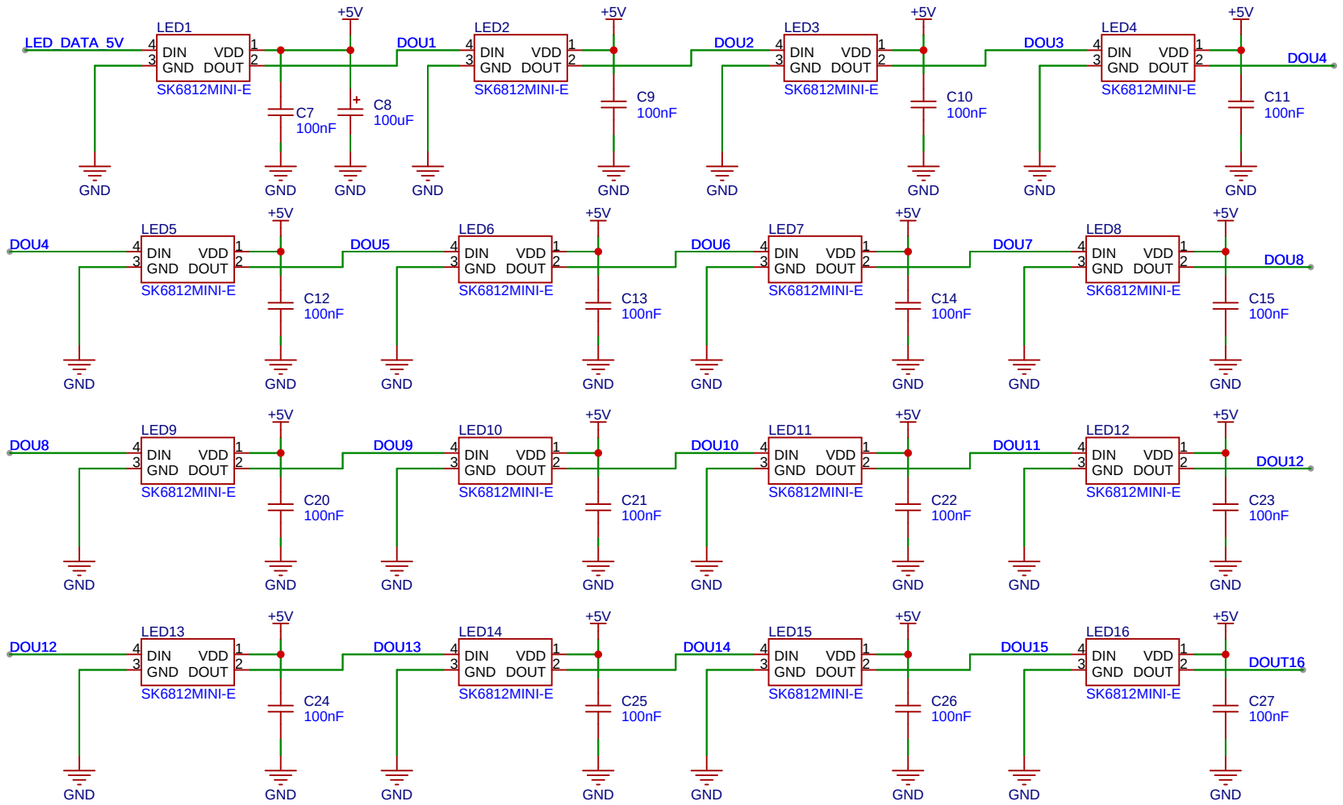
CS- Connected to 3.3V - Enables I2C Mode
SA0 - Connected to 3.3V - Sets I2C ADRESS : 0x19

DRV2605LDGSR Haptic motor driver



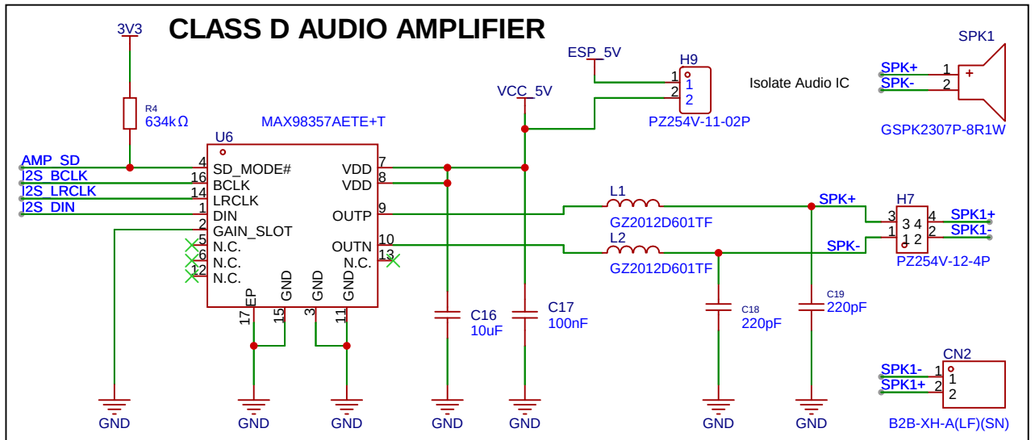
IN/TRIG - Connected to GND for I2C
EN - Tied to 3.3V to always enable
JST XH Connected in parallel with LD0832AA-0099F as requested

LED RING CIRCUIT DIAGRAM



Added Bulky capacitor - 100uF
Oriented all LEDS with DIN/DOUT For easy Routing and daisy Chain

CLASS D AUDIO AMPLIFIER



From Datasheet : Inductors and capacitors are used for filtering
Gain Connected to GND defaults to 12dB
SD_MODE- Connected 634K resistor because i am pulling-up the pin to 3.3V (ESP32 LOGIC) - GPIO7 Floating or High outputs (L+R)/2 Stereo mix
JST XH Connected in parallel with GSPK2307P-8R1W as requested

Schematic	Schematic1	Create at	2026-01-12
		Update at	2026-01-14
Board	Board1	Page	P1
Drawn		ESP32-S3-DEVKIT_Sensor_Project	
Reviewed			
		Version	Size
EasyEDA	V1.0	A4	Page 1 Total 1
			EasyEDA.com