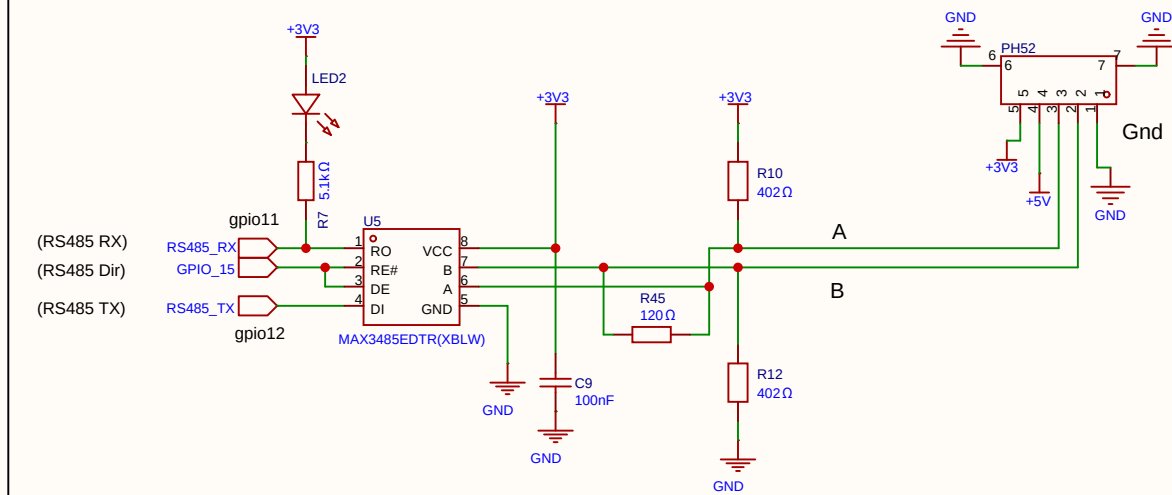
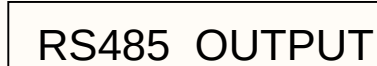
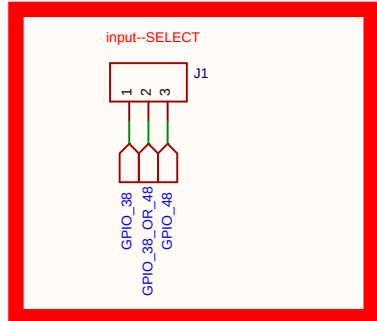
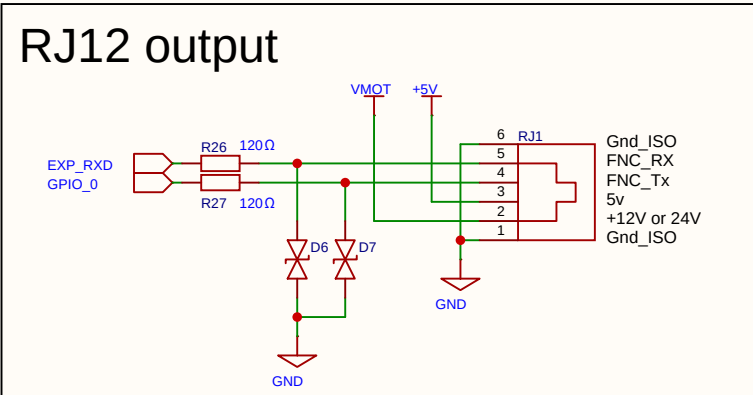
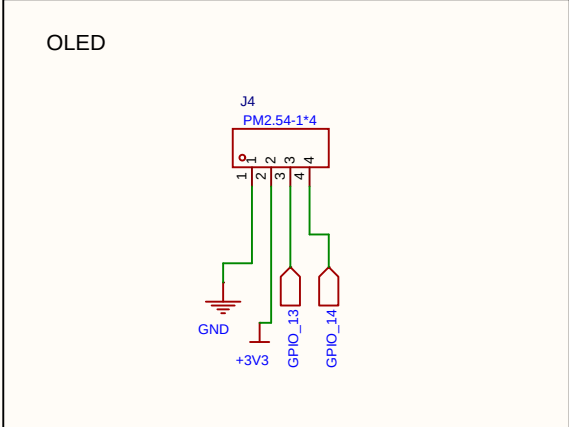
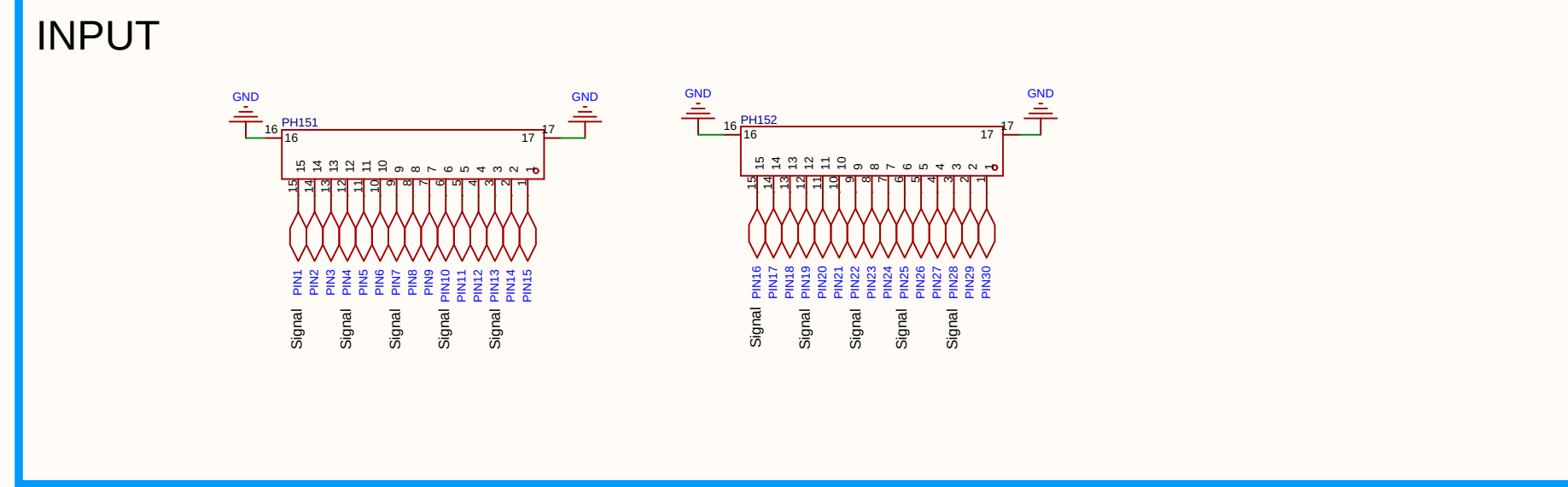




20k here changed to 402R

The diagram illustrates a multi-channel digital input interface using optoisolators. It features ten identical modules, each receiving three input lines: SW_VCC, Gnd, and a specific Signal line. The signal lines are color-coded: PIN3 (red), PIN6 (green), PIN9 (blue), PIN12 (purple), PIN15 (orange), PIN18 (brown), PIN21 (pink), PIN24 (grey), PIN27 (light blue), PIN30 (dark blue), PIN33 (yellow), PIN36 (cyan), PIN39 (magenta), PIN42 (black), PIN45 (white), PIN48 (dark green), PIN51 (light green), PIN54 (dark purple), PIN57 (medium purple), PIN60 (violet), PIN63 (indigo), PIN66 (slate blue), PIN69 (steel blue), PIN72 (cornflower blue), PIN75 (royal blue), PIN78 (navy blue), PIN81 (teal), PIN84 (sea green), PIN87 (forest green), PIN90 (green), PIN93 (lime green), PIN96 (yellow-green), PIN99 (yellow), PIN102 (gold), PIN105 (brown), PIN108 (tan), PIN111 (olive), PIN114 (dark olive), PIN117 (black), PIN120 (dark grey), PIN123 (grey), PIN126 (light grey), PIN129 (white), PIN132 (very light yellow), PIN135 (pale yellow), PIN138 (pale green), PIN141 (pale cyan), PIN144 (pale blue), PIN147 (pale purple), PIN150 (pale pink), PIN153 (pale orange), PIN156 (pale brown), PIN159 (pale tan), PIN162 (pale yellow), PIN165 (pale green), PIN168 (pale cyan), PIN171 (pale blue), PIN174 (pale purple), PIN177 (pale pink), PIN180 (pale orange), PIN183 (pale brown), PIN186 (pale tan), PIN189 (pale yellow), PIN192 (pale green), PIN195 (pale cyan), PIN198 (pale blue), PIN201 (pale purple), PIN204 (pale pink), PIN207 (pale orange), PIN210 (pale brown), PIN213 (pale tan), PIN216 (pale yellow), PIN219 (pale green), PIN222 (pale cyan), PIN225 (pale blue), PIN228 (pale purple), PIN231 (pale pink), PIN234 (pale orange), PIN237 (pale brown), PIN240 (pale tan), PIN243 (pale yellow), PIN246 (pale green), PIN249 (pale cyan), PIN252 (pale blue), PIN255 (pale purple).

Each module's output is connected to a specific GPIO pin: OPT1 to GPIO_42, OPT2 to GPIO_41, OPT3 to GPIO_40, OPT4 to GPIO_39, OPT5 to GPIO_38_OR_48, OPT6 to GPIO_37, OPT7 to GPIO_36, OPT8 to GPIO_10, OPT9 to GPIO_47, and OPT10 to GPIO_3. A red arrow indicates that the input signal lines can also serve as input-select lines. Another red arrow points to the output pins, noting that GPIO10 is used as an input instead of GPIO.

[illegible]

Use 50V for this 100nF

Schematic	577_2		Created	2026-06-05
			Modified	2026-06-06
Board	V577 Carrier_20260605		Sheet	P1
Drawn	PiBot V5.77 Carrier 0606			
Checked				
	Rev	Size	Sheet 1 of 1	
	V1.0	A4		