ZIF Socket

ZIF pins: 1–24, with ZIF3–ZIF23 labels, C2 0.1uF, C8 0.1uF 25V, 5V_SW, GND

R1 4k7, EDIT_SW, GND
R1 4k7, R1 4k7, R1 4k7
Q1 N_MOSFET, ZIF_GND_CTRL
R4 10k, 5V_SW
R3 3k3, D1, GND

SW1 — SW_Push_DPDT
EDIT_SW, 5V_SW, VPP, 5V, C1 10uF, GND

R5 100k 1%, VPP_SENSE, R6 20k 1%, GND

C7 2nF, C6 0.1uF, C5 10uF, R8 10k — C5, C6, C7: 25V min, GND

MT3608_MODULE
VOUT_P, VIN_P, VOUT_N, VIN_N, FB, VPP, 5V
C4 220uF, GND

FB PIN is located on the bottom side of the module. It's the middle pin of the pot.

5V, C3 0.1uF, GND

U1 — MCP4131-103 (10k)
SCK, SI, CS, VDD, PA0, PW0, PB0, VSS
SPI_CLK, SPI_DAT, POT_CS, GND
R9 2k, R2 3k3, GND

Arduino_UNO_R3
VIN, 3V3, +5V, 3V3, 5V
D0/RX, D1/TX, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13
RESET, IOREF, AREF, A0, A1, A2, A3, SDA/A4, SCL/A5
R7 3k3 1%, 3V3
VPP_SENSE, SHR_EN, SHR_CS, POT_CS, SPI_CLK, SPI_DAT
ZIF3, ZIF23, ZIF22, ZIF8, ZIF9, ZIF10, ZIF11, ZIF16, ZIF15, ZIF14, ZIF13, ZIF_GND_CTRL
GND

U2 — 74HC595
SER, SRCLK, SRCLR, RCLK, OE, VCC, GND
QA, QB, QC, QD, QE, QF, QG, QH, QH'
SPI_DAT, SPI_CLK, 5V, SHR_CS, SHR_EN
ZIF4, ZIF7, ZIF6, ZIF5, ZIF21, ZIF20
5V, C9 0.1uF, GND

ZIF SOCKET PIN MAP

GAL16V8/18V10

PIN	20XV10 22V10	20V8	16V8	18V10	6001 6002
1	—	—	—	—	—
2	EDIT	EDIT	EDIT	EDIT	EDIT
3	PV	RA1	RA1	RA3	—
4	RA0	RA2	RA2	RA4	RA0
5	RA1	RA3	RA3	RA5	RA1
6	RA2	—	RA4	SCLK	RA2
7	RA3	RA4	RA5	DIN	RA3
8	RA4	RA5	SCLK	STR	RA4
9	RA5	RA5	DIN	DOUT	RA5
10	SCLK	SCLK	SCLK	GND	SCLK
11	DIN	DIN	DIN	GND	DIN
12	GND	GND	GND	GND	GND
13	STR	STR	—	—	STR
14	DOUT	—	—	—	DOUT
15	—	DOUT	STR	—	—
16	—	—	DOUT	—	—
17	—	—	—	—	—
18	—	—	—	—	—
19	—	—	—	—	—
20	—	RA0	—	RA2	—
21	—	RA1	—	RA1	—
22	—	PV	RA0	RA0	—
23	VCC	—	PV	PV	PV
24	VCC	VCC	VCC	VCC	VCC

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