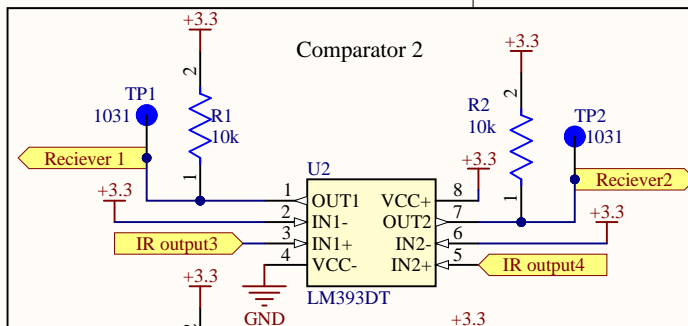
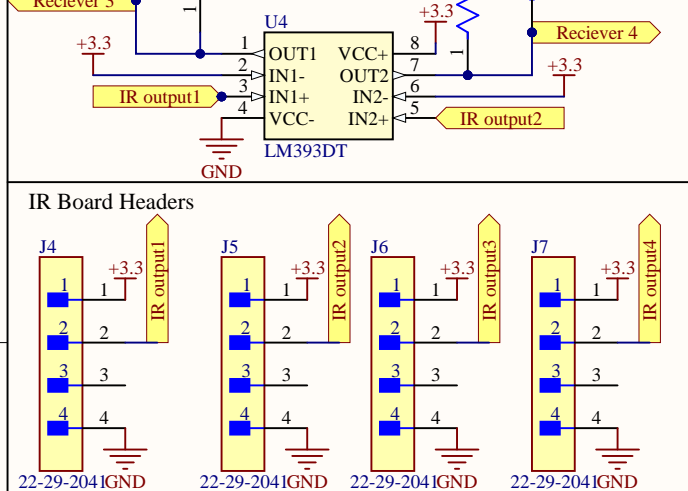


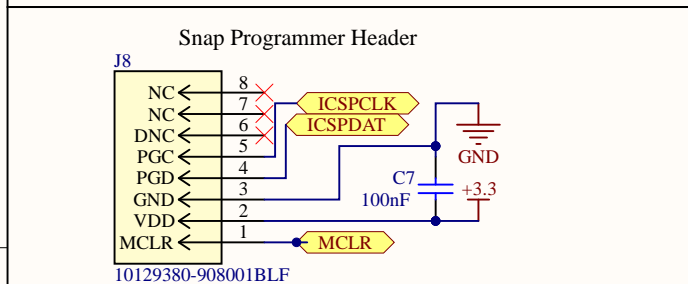
A



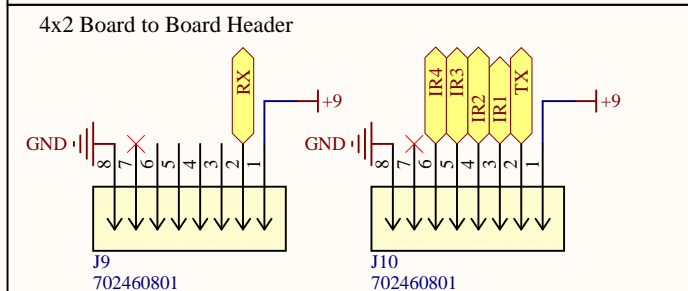
B



C



D



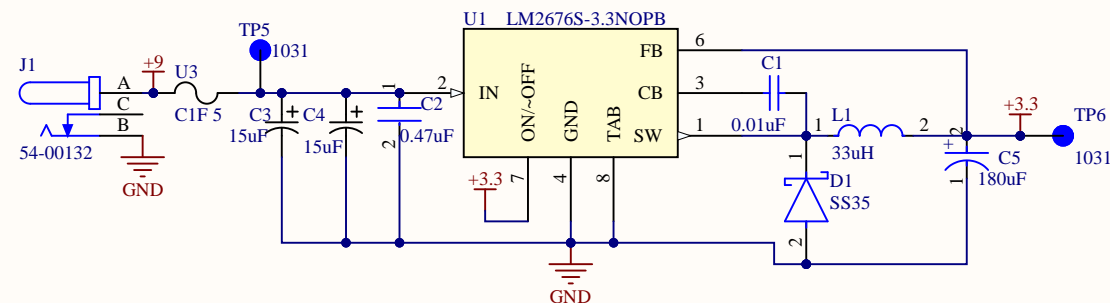
A

B

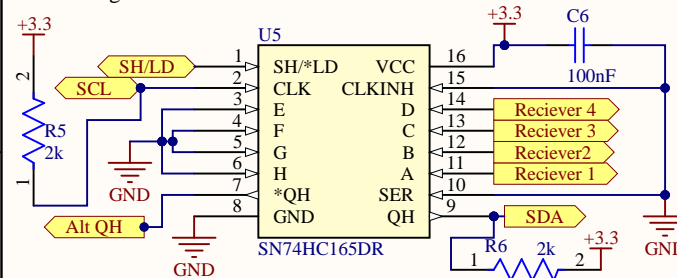
C

D

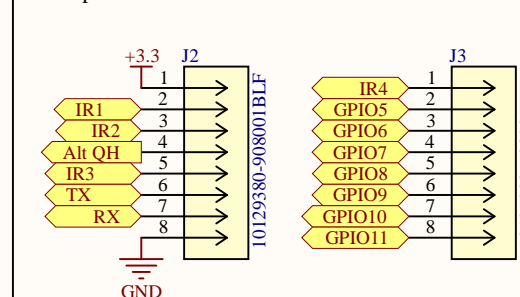
Switching Voltage Regulator



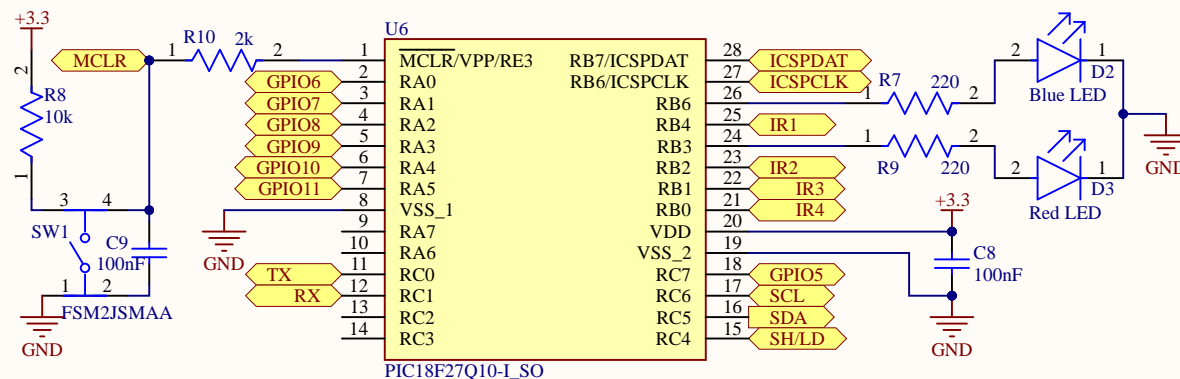
Shift Register



Backup Pin Headers 1x8



PIC Microcontroller

Title
Infrared Sensor and PIC Module

Size	Number	Revision
A		
Date:	4/11/2025	Sheet of
File:	C:\Users\...\PICSystem.SchDoc	Drawn By: Evan Skinner

Line#	Name	Description	Designator	Revision ID	Revision State	Revision Status	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
	0.01uF		C1		Unknown server		1	KEMET	C0805W103KCRACU	Volume Production				
	0.47uF	CL21 Series 0805 470nF 50V ±10% Tolerance X7R Multilayer Ceramic Chip Capacitor	C2		Unknown server		1	Samsung	CL21B474KBFNNNE	Volume Production				
	15uF	No Description Available	C3, C4		Not managed		2							
	180uF	Molded Aluminum Polymer Capacitor 180uF 20% 2V/life 2000Hours SMD 2917	C5		Unknown server		1	Panasonic	EEF-SXDD181ER	Volume Production				
	100nF		C6, C7, C8, C9		Unknown server		4	Kyocera AVX	08051C104M4Z2A	Volume Production				
	SS35	SS35 Rectifier Diode, Schottky, 1 Phase, 1 Element, 3A, 50V V(RRM), Silicon, DO-214AB	D1		Unknown server		1	ON Semiconductor / Fairchild	SS35	Volume Production				
	Blue LED	VLMB1310-GS08 LED Uni-Color Blue 468nm 2-Pin Chip 0603(1608Metric) T/R	D2		Unknown server		1	Vishay Semiconductors	VLMB1310-GS08	Volume Production				
	Red LED	LED RED 0603 SMD	D3		Unknown server		1	Vishay Semiconductors	VLMS1300-GS08	Volume Production				
	IREmitter, IRReciever	T-1 3/4 (5 mm) Diffused LED Lamp, 1.9 V, -40to 100 degC, 2-Pin THD, RoHS, Bulk	D4, D5, D6, D7, D8, D9, D10, D11		Unknown server		8	Broadcom Avago	HLMP-3301	Volume Production				
	54-00132	Connector, dc jack 5.5x2.5 mm, PCB mount, 90 degrees, silver plated, board lock	J1		Not managed		1							
	10129380-908001BLF	No Description Available	J2, J3		Not managed		2							
	22-29-2041	CONN HEADER VERT 4POS 2.54MM	J4, J5, J6, J7, J11, J12, J13, J14		Unknown server		8							
	10129380-908001BLF	No Description Available	J8		Not managed		1							
	702460801	No Description Available	J9, J10		Not managed		2							
	33uH	Wire Wound Ferrite Inductor for Power Lines 33uH ±10% 1.43Q 200mA 1210	L1		Unknown server		1	Murata	LQH32CN330K53L	Volume Production				
	10k	Thick Film Chip Resistors 0805 10kQ 0.125W 1% 100ppm/°C	R1, R2, R3, R4, R8, R13, R14, R17, R18		Unknown server		9	Bourns	CR0805-FX-1002ELF	Volume Production				
	2k	RES Thick Film, 2kQ, 1%, 0.125W, 100ppm/°C, 0805	R5, R6, R10		Unknown server		3	Vishay	CRCW08052K00RKEA	Volume Production				
	220	RES Thick Film, 220Q, 1%, 0.125W, 100ppm/°C, 0805	R7, R9, R11, R12, R15, R16		Unknown server		6	Vishay	CRCW0805220RKEA	Volume Production				
	FSM2J5MAA	SWITCH TACTILE SPST-NO 0.05A 24V	SW1		Unknown server		1	TE Connectivity	FSM2J5MAA	Volume Production				
	1031		TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14		Not managed		14							
	LM2676S-3.3NOPB	No Description Available	U1		Not managed		1							
	LM393DT	No Description Available	U2, U4		Not managed		2							
	C1F5	No Description Available	U3		Not managed		1							
	SN74HC165DR	No Description Available	U5		Not managed		1							
	PIC18F27Q10-I_SO	Integrated Circuit	U6		Not managed		1							