

8 Channel I/O v1.0 (8 Relay Version) Parts List

ID	Description	DigiKey Part#	Mouser Part#
X1	RJ-45 Jack 2 Port	A9013-ND	
X2 – X17	3-pin screw term block 3.5mm	ED1515-ND	
X18	2-pin Screw Term Block 3.5mm	ED1514-ND	
C1,C2	4.7 uF Electrolytic	PCE3011CT-ND	661-MKA35VC4R7M
C3	1 uF Ceramic	PCC2319CT-ND	
C4	0.1 uF Ceramic	311-1141-1-ND	
D1-D8	BAS16		625-BAS16
D9	BAT54S		625-BAT54S
D10	MBR130		863-MBR130LSFT1G
RN1	10K 9 resistor array		71-CSC10A01-10K
R1,R3,R5,R7,R9, R11,R13,R15	1K 1/4W 1%	311-1.00KFCT-ND	71-CRCW1206-1.0K
R2,R4,R6,R8, R10,R12,R14,R16	390 1/4W 1%	311-390FCT-ND	71-CRCW1206-390
R17-R24	1.5K 1W 5%		CRCW1206390RFKTA
Q1-Q8	BT4403 PNP Transistor		625-MMBT4403
LED1-LED8	LED Red 0805	160-1415-1-ND	
REG1	LM78M05	LM78M05CTFS-ND	512-KA78M05
U1	DS2408	Available from Dallas	
U2, U3	OptoCoupler	160-1349-5-ND	
SW1, SW2	8 Position DIP Switch		774-2198LPST
RLY1-RLY8	2A DPDT 220v relay 5V coil		655-IM03GR
JP1	2 pin header	WM6707-ND	571-1029727

Construction Tips

- Observe the polarity of C1 and C2
- D1-D8 are marked A6
- D9 is marked L44
- Q1-Q8 are marked 2T
- R1,R3,R5,R7,R9,R11,R13,R15 are marked 1001
- R2,R4,R6,R8,R10,R12,R14,R16 are marked 3900
- R17-R24 are marked 152
- Locate pin 1 of RN1 correctly
- The markings on D10 are hard to see but just match up the line on the diode with the line on the board.