

## Steve Manley 8x8x8 RGB LED Cube - Circuit Board Interconnections

Anode Driver Board	Arduino Uno
JP1 - DATA IN	Pin 11
JP1 - CLK IN	Pin 13
JP1 - LE IN	Pin 3
JP1 - ~OE IN	Pin 2
JP2 - GND	GND (next to Pin 13)
X4 - 6V IN	DC Power Jack +V
X5 - GND	DC Power Jack 0V

Anode Driver Board JP3	Shift Register Board 1 JP1
Pin 1	Pin 1
Pin 2	Pin 2
Pin 3	Pin 3
Pin 4	Pin 4

Anode Driver Board JP4	Shift Register Board 1 JP2
GND	Pin 4

Anode Driver Board JP5	Shift Register Board 3 JP1
Pin 2	Pin 2
Pin 3	Pin 3
Pin 4	Pin 4

Anode Driver Board	Base Board
X1 - A0	Anode 0
X1 - A1	Anode 1
X1 - A2	Anode 2
X2 - A3	Anode 3
X2 - A4	Anode 4
X3 - A5	Anode 5
X3 - A6	Anode 6
X3 - A7	Anode 7

Anode Driver Board	External 6V Power Supply
X4 - 6V IN	+6 Volts
X5 - GND	0 Volts

Shift Register Board 1 JP3	Shift Register Board 2 JP1
Pin 1	Pin 1
Pin 2	Pin 2
Pin 3	Pin 3
Pin 4	Pin 4

Shift Register Board 2 JP3	Shift Register Board 3 JP1
Pin 1	Pin 1

Shift Register Board 3 JP3	Shift Register Board 4 JP1
Pin 1	Pin 1
Pin 2	Pin 2
Pin 3	Pin 3
Pin 4	Pin 4

Shift Register Board 4 JP3	
Pin 1 - Not Connected	
Pin 2 - Not Connected	
Pin 3 - Not Connected	
Pin 4 - Not Connected	

All Shift Register Boards JP2	Anode Driver Board
Pin 1 - Not Connected	
Pin 2	X4 - 5V OUT
Pin 3	X5 - GND

All Shift Register Boards JP2	
Board 1 Pin 4	Board 2 Pin 4
Board 2 Pin 4	Board 3 Pin 4
Board 3 Pin 4	Board 4 Pin 4