Board

Doard			
Quantity	References	Value	Purchase
11	C11, C21, C31, C41, C51, C61, C71, C81, C331, C421, C601	100nF 50V	lcsc.com
8	C12, C22, C32, C42, C52, C62, C72, C82	1uF 50V	lcsc.com
3	C101, C311, C321	10nF 25V	lcsc.com
1	C102	470uF 50V	lcsc.com
1	C201	220uF 10V	lcsc.com
8	*R11, R21, R31, R41, R51, R61, R71, R81	0R36 +-1%	lcsc.com
4	R311, R312, R321, R322	10k	lcsc.com
2	R331, R421	39k	lcsc.com
2	R332, R422	6k8	lcsc.com
1	R101	82k	lcsc.com
1	R201	3k9	lcsc.com
1	R701	4k7	lcsc.com
8	L11, L21, L31, L41, L51, L61, L71, L81	100uH, GLE GCNR6045- 101MC	lcsc.com
8	D11, D21, D31, D41, D51, D61, D71, D81	MBR0560	lcsc.com
1	D101	BZT52C10	lcsc.com
1	D201	Pow LED	lcsc.com
8	U11, U21, U31, U41, U51, U61, U71, U81	PT4115	lcsc.com
1	U201	VXO7805-1000	aliexpress.com
1	U601	ESP32 mini (CP2104 drive)	aliexpress.com
1	U701	DS18B20	lcsc.com
1	F101	Holder 5.2x20mm	lcsc.com
1	F101	4A fast blowing	lcsc.com
1	F201	1A	lcsc.com
9	IN1, LED1, LED2, LED3, LED4, LED5, LED6, LED7, LED8	Screw Terminal 1x2, P5mm Horizontal	lcsc.com
1	Q101	BR50P06	lcsc.com
1	J301	Conn_01x06_Male	aliexpress.com
1	J401	Conn_01x03_Male	aliexpress.com
1	J501	Conn_01x04_Male	aliexpress.com

* Note for R1 - R8

The board can handle up to 500mA per channel. Changing the resistor has impact on Iled max which is calculated 0.1/R.

With 0.36Ω , it's 0.1 / 0.36 = 278mA (measured 290mA)

I recommend using +-1% tolerance for constant Iled values over the different channels

Smallest recommended resistor is 0.22Ω which will end up in Iled max per channel little more than 450 mA

Installation

Quantity	Reference	Value	Purchase
1	Power supply	24V/100W	aliexpress.com
1	Enclosure box	150x100x50mm	aliexpress.com
4	M3x5 screw	M3x6	aliexpress.com
4	M3 washer	M3x6x0.8	aliexpress.com
9	DC sockets	DC-022B	aliexpress.com
9	DC plugs	DC-022B	aliexpress.com
100m	DC cable	20AWG	aliexpress.com
1	Rotary encoder	EC11	aliexpress.com
1	Blank cover panel		aliexpress.com
1	Encoder knob	Marshall white	aliexpress.com
1	Motion detection sensor	AM312	aliexpress.com
1	Crimping plier JST XH	SN-2549	aliexpress.com