Board

Quantity	References	Value	Purchase
	C11, C21, C31, C41, C51, C61, C71, C81, C331, C421,		
11	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	D11, D21, D31, D41, D51, D61, D71, D81	MBR0560	lcsc.com
1	D101	BZT52C10	lcsc.com
1	D201	Pow LED	lcsc.com
1	F101	Holder 5.2x20mm	lcsc.com
1	F101	4A fast blowing	lcsc.com
1	F201	1A resettable	lcsc.com
9	IN1, LED1, LED2, LED3, LED4, LED5, LED6, LED7, LED8	Screw_Terminal_01x02	lcsc.com
1	J301	S4B-XH-A	lcsc.com
1	J401	S3B-XH-A	lcsc.com
1	J501	Conn_02x04_Male	lcsc.com
8	L11, L21, L31, L41, L51, L61, L71, L81	100uH, GLE GCNR6045	lcsc.com
1	Q101	BR50P06	lcsc.com
8	*R11, R21, R31, R41, R51, R61, R71, R81	0.36Ω +-1%	lcsc.com
1	R101	82kΩ	lcsc.com
1	R201	3.9kΩ	lcsc.com
4	R311, R312, R321, R322	10kΩ	lcsc.com
2	R332, R422	6.8kΩ	lcsc.com
2	R331, R421	39kΩ	lcsc.com
1	R701	4.7kΩ	lcsc.com
8	U11, U21, U31, U41, U51, U61, U71, U81	PT4115	lcsc.com
1	U201	step down 5V 1A	aliexpress.com
1	U601	ESP32 mini (CP2104!)	aliexpress.com
1	U701	DS18B20	lcsc.com

* Note for R11 - R81

The board can handle up to 500 mA 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 450mA

Installation

Quantity	Reference	Value	Purchase
1	Power supply	24V/100W	aliexpress.com
1	Enclosure box	150x100x50mm	aliexpress.com
4	M3x5 screw	М3х6	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		aliexpress.com
1	Motion detection sensor	AM312	aliexpress.com
1	Crimping plier JST XH	SN-2549	aliexpress.com