

## OpenPnP Driver BOM

Qty	Reference	Value	Footprint
Resistors			
4	R31, R33, R35, R37	10R	SMD 1206
2	R27, R28	33R	SMD 1206
1	R5	560R	SMD 1206
28	R3, R9, R10, R11, R12, R13, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51	1k	SMD 1206
1	R4	1k2	SMD 1206
1	R29	1k5	SMD 1206
1	R2	6k8	SMD 1206
7	R1, R6, R7, R8, R14, R15, R16	10k	SMD 1206
6	R30, R32, R34, R36, R38, R39	100k	SMD 1206
Capacitors			
2	C28, C29	12pF	SMD 1206
2	C36, C37	18pF	SMD 1206
6	C38, C39, C40, C41, C42, C43	10nF	SMD 1206
23	C2, C3, C5, C6, C9, C10, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C30, C44, C45	100nF	SMD 1206
1	C12	22uF/15V	CP Elec 5x5.3
2	C11, C13	47uF/25V	CP Elec 6.3x5.8
1	C1	330uF/35V	CP Elec 10x10
7	C8, C31, C32, C33, C34, C35, C46	220uF/35V	CP Elec 8x10.5
2	C4, C7	470uF/25V	CP Elec 10x10
Inductors			
1	L1	100uH	L SMD SMT54 CD54
Crystals			
1	X1	12MHz	Crystal SMD 5032-4Pin 5.0x3.2mm
Diodes			
1	D1	STPS10170C	DPAK
1	D2	15V	SMA DO214AC
4	D3, D4, D5, D8	LED Yellow	SMD LED 1206
4	D10, D11, D12, D13	LED Green	SMD LED 1206
1	D9	LED Red	SMD LED 1206
2	D6, D7	SS110	SMA DO214AC
Transils			
1	TR1	28V	SMA DO214AC
Transistors			
1	T1	IRF9540	TO220
1	T2	AO3401	SMD SOT23
4	T3, T4, T5, T6	BUZ11A	TO220V
2	T7, T8	ZXMN4A06G	SMD SOT223
Integrated circuits			
1	IC1	LPC1769FBD100	TQFP-100 14x14mm P0.5mm
1	IC2	AMS1117-3.3	IC SMD SOT223 3
2	IC3, IC4	MC33152	IC SMD SO08
Modules			
2	MOD1, MOD2	MP1584	Module Power source Step down MP1584
5	MOD3, MOD4, MOD5, MOD6, MOD7	TMC2209 stepper motor driver	Module Stepper Motor Driver
Switches			
3	SW1, SW2, SW3	RESET, ISP, EMERGENCY	Switch SMD L6.12mm W3.7mm H2.5mm pin12
Switches			
1	CON1	USB	Connector USB B (female)
6	CON2, CON19, CON20, CON21, CON22, CON23	UART	Pinheader 4x
8	CON3, CON12, CON13, CON14, CON15, CON16, CON17, CON18	VOLTAGE, LIGHTS, VALVES, PUMP, STOP, ...	Connector Terminal Screw 02 35MM
6	CON4, CON5, CON6, CON7, CON8, CON9	CONNECTOR_03	Pinheader 3x
1	CON10	MICROSD	Connector MicroSD
1	CON11	MICROSD Alternative	Connector MicroSD Alternative