

# Bill of Materials

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PCB Name	Lazy Control Board	PCB Version	1.0	Creation Date	14/06/2021
Author	George Sephton	PCB Revision	B		
Comments	-				

Designator	Description	Comment	Manufacturer	MPN	Footprint	Quantity	Fitted
R11, R12, R13, R14	Thick Film Resistor SMD 0603 1% 0.1W	0R			G_RESC1608	4	No
C1, C2, C3, C5, C7, C10, C12, C15	Multilayer Ceramic Ceramic Capacitor SMD 0603 X5R 16V 10%	4.7uF			G_CAPC1608	8	Yes
C4, C8	WCAP-ASLL SMT Aluminum Electrolytic Capacitors, D6.3mm x L5.5mm,	100uF	Würth Elektronik	865060343005	WCAP-ASLL_6.3x5.5	2	Yes
C6, C9, C11, C14	Multilayer Ceramic Ceramic Capacitor SMD 0805 X5R 16V 10%	10uF			G_CAPC2012	4	Yes
C13	Multilayer Ceramic Ceramic Capacitor SMD 0603 X5R 16V 10%	1uF			G_CAPC1608	1	Yes
D1	Standard Recovery Diode 50V 1A Single 1V 2 $\mu$ s 30A		On Semi	GF1A	G_SMA	1	Yes
J1	WR-DC DC Power Jack Connector, Male, Right Angled, 24V, 5A		Würth Elektronik	694106301002	694106301002	1	Yes
J2, J5	WR-TBL Serie 111 Horizontal Entry Modular, Pressure Clamp, THT, pitch		Würth Elektronik	691111710003	691111710003	2	Yes
J3, J6	WR-TBL Serie 111 Horizontal Entry Modular, Pressure Clamp, THT, pitch		Würth Elektronik	691111710002	691111710002	2	Yes
J4	WR-PHD Pin Header, THT, pitch 2.54mm, Single Row, Straight, 3p		Würth Elektronik	61300311121	61300311121	1	Yes
J8, J9	WR-PHD Pin Header, THT, pitch 2.54mm, Single Row, Angled, 6p		Würth Elektronik	61300611021	61300611021	2	Yes
R1, R2, R4, R5, R6, R7, R8, R9, R10	Thick Film Resistor SMD 0603 1% 0.1W	0R			G_RESC1608	9	Yes
R3, R15	Thick Film Resistor SMD 0603 1% 0.1W	10K			G_RESC1608	2	Yes
SW1, SW2	Alps Tactile Switches 6.2x6.2x3.4mm 250gf		Alps	SKRAAKE010	SKRAAKE010	2	Yes
U1	ESP32 ECO V3 SMD module, 4 MB SPI Flash, PCB Antenna		Espressif	ESP32-WROOM-32E(M113	ESP32-WROOM-32D	1	Yes
U2, U3	500mA 1% Accuracy Low Noise LDO		Microchip	MIC5209-3.3YM	G_SOIC_8C	2	Yes