

Quantity	Manufacturer Part #	Manufacturer	Do Not Install	Designator	Vendor	Vendor Part Number	Value	Footprints	Description
1	DS3231S#T&R	Maxim		U9					Real-Time Clock
2	LMP2011MF/NOPB	Texas Instruments		U8, U10					Single, High Precision, Rail-to-Rail Output Operational Amplifier
1	MAX6045BEUR	Analog Devices Inc./Maxim Integrated		U7					Voltage References Precision, Low - Power, Low - Dropout, SOT23-3 Voltage References
1	PCA9685PW,112	NXP USA		U6					
1	QT PY ESP32-S3		DNI	U4	Adafruit	5426			WiFi Dev Board with STEMMA QT - 8 MB Flash / No PSRAM
1	MCP4728-E/UN	Microchip		U3					
2	MPRLS0300YG00001B	Honeywell		U2, U5					
1	AP2112K-3.3TRG1	Diodes Incorporated		U1					IC REG LINEAR 3.3V 600MA SOT25
1	ERJ-PB3B1302V	Panasonic Electronic Components		R11			13k	0603	Resistor, 0.1%, 1/5W
1	ERA-3AEB163V	Panasonic Electronic Components		R10			16k	0603	Resistor, 0.1%, 1/10W
12	AC0402FR-7W10KL	YAGEO		R3, R4, R5, R6, R7, R8, R9, R12, R21, R22, R23, R24			10k	0402	RES 10 KOHM 1% 1/8W 0402
1	SR0402FR-7T4K7L	YAGEO		R2			4.7k	0402	RES 4.7K OHM 1% 1/5W 0402
9	SR0603FR-7T100KL	YAGEO		R1, R13, R14, R15, R16, R17, R18, R19, R20			100K	0603	RES 100K OHM 1% 1/4W 0603
8	BUK98150-55A/CUF	Nexperia USA		Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8					N-MOSFET N-CH 55V 5.5A SOT223
1	D36V28F5	Pololu		P17	Pololu	D36V28F5			5V, 3.2A Step-Down Voltage Regulator
2	68000-103HLF	Amphenol ICC (FCI)		P15, P16					Header, 3-Pin
8	67997-206HLF	Amphenol ICC (FCI)		P7, P8, P9, P10, P11, P12, P13, P14					Header, 3-Pin, Dual row
1	0022057045	Molex		P6					Connector Header Through Hole, Right Angle 4 position 0.098" (2.50mm)
1	BM158-SRSS-TB(LF)(SN)	JST Sales America Inc.		P5					Header, 15-Pin
1	D36V50F5	Pololu		P4	Pololu	D36V50F5			12V, 4.5A Step-Down Voltage Regulator5V, 5.5A Step-Down Voltage Regulator
1	D36V50F12	Pololu		P3	digikay	2183-4095-ND			DC DC CONVERTER 12V 54W
1	0430451227	Molex		P2					CONN HEADER VERT 12POS 3MM
1	0430450827	Molex		P1					CONN HEADER VERT 8POS 3MM
1	5031821852	Molex		J15					10 (8 + 2) Position Card Connector Secure Digital - microSDa, 4 Surface Mount, Right Angle Gold
8	0430450226			J5, J6, J7, J8, J9, J10, J11, J12					CONN HEADER VERT 2POS
2	SM048-SRSS-TB(LF)(SN)	JST Sales		J3, J4					
5	BM048-SRSS-TB(LF)(SN)	JST Sales		J1, J2, J13, J14, J16					
1	NSR0320MW2T1G	onsemi		D9					DIODE SCHOTTKY 20V 1A SOD323
8	S1MLHRVG	Taiwan Semiconductor		D1, D2, D3, D4, D5, D6, D7, D8					DIODE GEN PURP 1KV 1A SMA
2	CC0603KRX7ROBB103	YAGEO		C14, C15			10nF	0603	CAP CER 10000PF 100V X7R 0603
1	CC0603KRX7ROBB222	YAGEO		C13			2.2nF	0603	CAP CER 2200PF 100V X7R 0603
2	CC0603KXP7R9BB104	YAGEO		C4, C8			0.1uF	0603	CAP CER 0.1UF 50V X7R 0603
2	AC0603KRX7R8BB105	YAGEO		C2, C12			1uF	0603	CAP CER 1UF 25V X7R 0603
8	CC0603KRX5R7BB106	YAGEO		C1, C3, C5, C6, C7, C9, C10, C11			10uF	0603	CAP CER 10UF 16V X5R 0603
1	BK-917	MPD		BT					BATTERY RETAINER