

Fitted	Designator	Comment	Value	Description	Manufacturer	Manufacturer Part Number	Supplier	Supplier Part Number	Quantity
Fitted	BAT1	ICP621333PA	240mAh	EMECH SINGLE BATTERYLIPO	Renata	ICP621333PA	Conrad	252027 - UP	1
Fitted	C1, C11, C13, C14, C22	C0805	4u7	CERCAP4u7 25V10% X7R0805	YAGEO	CC0805KKX7R8BB475	Digi-Key	311-1885-1-ND	5
Fitted	C2, C3, C6, C9, C12, C15, C16, C17, C19, C20, C21, C23, C24, C25, C26	C0402	100n	CERCAP100n50V10% X7R0402	YAGEO	CC0402KRX7R9BB104	Digi-Key	311-3566-1-ND	15
Fitted	C4, C27	C1206	1n	CERCAP1n2kV10% X7R1206	Würth ⊟ektronik	885342208024	Digi-Key	732-885342208024CT ND	2
Fitted	C5, C18	C0805	1u	CERCAP1u25V10% X7R0805	YAGEO	CC0805KKX7R8BB105	Digi-Key	311-1456-1-ND	2
Fitted	C7, C8, C10	C0805	2u2	CERCAP2u225V10% X7R0805	YAGEO	CC0805KKX7R8BB225	Digi-Key	311-1884-1-ND	3
Fitted	D1, D2, D3, D10	BAS16W-7-F		DIODE 200mW75V 300mASOT-323	Diodes Incorporated	BAS16W-7-F	Digi-Key	BAS16W-FDICT-ND	4
Fitted	D4, D6, D7, D8, D9	APHHS1005LZGCK-V	Green	LED GREEN 2mA 2.65V 0402	Kingbright	APHHS1005LZGCK-V	DigiKey	754-2126-1-ND	5
Fitted	D5	APHF1608SEEQBDZGK		LED RGB 20mA 3.3V 1.6x0.8mm	Kingbright	APHF1608SEEQBDZGK	Digi-Key	754-2144-1-ND	1
Fitted	FB1, FB2	BLM15BD102SN1D	1k@100M	FERRITE 200mA-1k 0402	Murata Electronics	BLM15BD102SN1D	Digi-Key	490-1010-1-ND	2
Fitted	N	USB4105-GF-A		CONN Female USB-C 16x Horizontal SMD	GCT	USB4105-GF-A	Digi-Key	2073-USB4105-GF- ACT-ND	1
Fitted	Ŀ	M20-8890445R		CONN Male 4-Poles 2.54mm Horizontal SMD	Harwin Inc.	M20-8890445R	Digi-Key	952-M20-8890445RCT ND	1
Fitted	M1	VZ43FC		EMECH MBRATION MOTOR 3V	Vybronics Inc	VZ43FC1B5640007L	Digi-Key	1670- VZ43FC1B5640007LC T-ND	1
Fitted	Q1	BSS138		MOSFETN 0.2A50V SOT323	Diodes Incorporated	BSS138W-7-F	Digi-Key	BSS138W-FDICT-ND	1
Fitted	R1, R2, R3, R4	R0402	5k1	RES5k1 62.5mW1% 0402	YAGEO	RC0402FR-075K1L	Digi-Key	311-5.10KLRCT-ND	4
Fitted	R5, R21	R0402	1k6	RES1k6 62.5mW1% 0402	YAGEO	RC0402FR-071K6L	Digi-Key	YAG3045CT-ND	2
Fitted	R6, R7, R9, R10, R11, R22	R0402	10k	RES10k 62.5mW1% 0402	YAGEO	RC0402FR-0710KL	Digi-Key	311-10.0KLRCT-ND	6
Fitted	R8	NCU15XH103F6SRC	10k 3380K	RESNTC 10k 3380K	Murata Electronics	NCU15XH103F6SRC	Digi-Key	490- NCU15XH103F6SRCC T-ND	1
Fitted	R12, R15, R16	R0603	0R	RES0R0603 RES220R62.5mW1%	YAEGO	RC0603FR-070RL	Digi-Key	311-0.0HRCT-ND	3
Not Fitted	R13	R0402	220R	0402	YAGEO	RC0402FR-07220RL	Digi-Key	311-220LRCT-ND	0
Fitted	R14	R0603	68R	RES68R0603 RES220R62.5mW1%	YAEGO	RC0603FR-0768RL	Digi-Key	311-68.0HRCT-ND	1
Fitted	R17, R18, R19, R20	R0402	220R	0402 EMECHTRIPLE	YAGEO	RC0402FR-07220RL	Digi-Key	311-220LRCT-ND	4
Fitted	S1	MG001V		MEMBRANE KEYS	JESSINIE	MG001V	AliExpress	MG001V/3 Key RYG	1
Fitted	\$2, \$3, \$5	PTS636		BUTTON SPST12V 50mA6x3.5x4.3mm	C&K	PTS636 SK43 SMTR LFS	Digi-Key	CKN12311-1-ND	3
Not Fitted	S4	OS102011MS2QN1		SWITCH SPDT12V 0.1A4.3x8.6mm	C&K	OS102011MS2QN1	Digi-Key	CKN9565-ND	0
Fitted	TP3, TP4	5019		TPSMD3.81x2.03mm SENSOR	Keystone Electronics	5019	Digi-Key	36-5019CT-ND	2
Fitted	U1	US2HH12TR		accelerometer 1.7- 3.6VLGA-12	STMicroelectronics	US2HH12TR	Digi-Key	497-15069-1-ND	1
Fitted	U2	USBLC6-2SC6		SOT23-6	STMicroelectronics	USBLC6-2SC6	Digi-Key	497-5235-1-ND	1
Fitted	U3	ECS-2520MV-080-CN- TR	8MHz	OSC 8MHz Enable/Disable 1.6V- 3.6V4-SMD 2.5x2mm	ECSInc.	ECS-2520MV-080-CN- TR	Digi-Key	XC3029CT-ND	1
Fitted	U4	STNS01PUR		Charger Single Lilon 5.4V12-DFN	STMicroelectronics	STNS01PUR	Digi-Key	497-13880-1-ND	1
Fitted	U5, U6	TPS22919DCKR		POWER-DISTRIBUTION Single Switch 5.5V SOT363	Texas Instruments	TPS22919DCKR	Digi-Key	296- TPS22919DCKRCT-ND	2
Fitted	U7	STM32F401CCU6		MCU ARM-Cortex-M4 256kB_FLASH 64kB_RAM1.7-3.6V UFQFPN48	STMicroelectronics	STM32F401CCU6	Digi-Key	497-17426-ND	1
Fitted	U8	HC-12		RF Module UART	HC Tech	HC-12	AiExpress	HC-12	1