

# Bill of Materials

Bill of Materials for Project [WackyHatProject.PrjPcb] (No PCB Document Selected)

Source Data From: WackyHatProject.PrjPcb  
 Project: WackyHatProject.PrjPcb  
 Variant: None

Creation Date: 29/04/2021 8:33 am  
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Footprint	Comment	LibRef	Designator	Description	Quantity
CAPC1608L	100uF	CC, 10uF_0603	C1, C3, C11, C22, C23, C24, C25, C27	CAP CER 100uF X7R +10% 50V 0603	13
CAPC1608L	10uF	CC, 10uF_0603	C2, CA, CB, CC, C15, C16	CAP CER 10uF X7R +10% 50V 0603	8
CAPC1608L	10uF	CC, 10uF_0603	C5, C7	CAP CER 10uF X5R +20% 6V3 0603	2
CAPC1608L	2.2uF	CC, 2.2uF_0603	C6, C19	CAP CER 2.2uF X5R +20% 10V 0603	2
CAPC2012L	10uF	CC, 10uF_0603	C10, C26	CAP CER 10uF X7R +20% 10V 0805	2
CAPC3216L	47uF	CC, 47uF_1206	C12	CAP CER 47uF X5R +20% 6V 1206	1
NICH-1	100uF/16V	CA, 100uF_16V	C13	CAP ALUM 100uF 16V SMD	1
CAPC1608L	1uF	CC, 1uF_0603	C14, C17	CAP CER 1uF Y5V -20% +80% 16V 0603	2
CAPC1608N	4.7uF	CC, 4.7uF_0603	C16, C32	CAP CER 4.7uF X5R +20% 10V 0603	2
CAPC1608L	27uF	CC, 27uF_0603	C20, C21	CAP CER 27uF NPO/COG +5% 50V 0603	2
DO-214AAA, SMC	DIODE ZENER	SMBS330B-TP	D1, D3, D4, D5, D6, D7	DIODE ZENER 5.6V 5W DO214AA	6
SMC	SCHOTTKY 30V	MERS330T3G	D8	DIODE SCHOTTKY 30V 4A SMC	1
WL-SMCW06	Blue	DL_150060BSM	DL1	LED Blue 270mcd 0603 SMD	1
WL-SMCW06	Dark Green	DL_150060GS5M	DL2	LED Dk Green 430mcd 0603 SMD	1
RESC3216N	5A	FS_Fuse_5A	F1	Fuse 5.0A Fast Acting 1206 SMD	1
RESC3216N	2.0A	FS_Fuse_2.0A	F2	Fuse 2.0A Very Fast Acting 1206 SMD	1
MOLEX_KK_1	10 Pin Molex KK	JA_MOLEX_KK	H1	CONN HEADER 10POS 2.54mm VERT_Thru	1
MOLEX_KK_2	2 Pin Molex KK	JA_MOLEX_KK	H2, H3	CONN HEADER 2POS 2.54mm VERT_Thru	2
MOLEX_KK_3	3 Pin Molex KK	JA_MOLEX_KK	H4	CONN HEADER 3POS 2.54mm VERT_Thru	1
BATT_HEADER	Battery HEADER	HA_HEADER	H5	3Pin Header 2.54mm spacing	1
FCL_USB_10	JS_USB_MICRO	JS_USB_MICRO	H6	CONN USB MICRO B RECPMT SMT R/A	1
MOLEX_KK_4	4 Pin Molex KK	JA_MOLEX_KK	H7, H8	CONN HEADER 4POS 2.54mm VERT_Thru	2
IDC2_54-V10C	Header 5X2 Vert	JA_HDR_IDC_54	H9	DC Header, 2.54mm, 10-Pin, Vert	1
JMP2_54-CD	100M Jumper	TP_JUMPER_CD	J1	2.54mm Jumper change over, Thru Hole	1
INDC216L	1A max, 16x 0.38" (A Ferrite Bead)	CL_L3	L3	Ferrite Bead, Rdc: 0.38, Z100MHz 500R, Imp	2
INDUCTORS	IND 5.2uH 6A	CDRH104RNP-4	L2	FIXED IND 5.2uH 6A 22 MOHM SMD	1
SOT23_L	SSMJ3208LF	TM_SSMJ3208	Q1, Q2	MOSFET P-CH 20V 6A SOT23-3	2
RESC1608L	0R	RS_0R0	R1, R2, R3, R5, R6, R13, R16, R17	RES 0.0 OHM 1/10W 5% 0603 SMD	8
RESC1608L	1K	RS_1K	R4	RES 1.0K OHM 1/10W 5% 0603 SMD	1
RESC1608L	270R	RS_270R	R7, R8	RES 270 OHM 1/10W 5% 0603 SMD	1
RESC1608L	15K	RS_15K	R9	RES 15.0K OHM 1/10W 5% 0603 SMD	1
RESC1608N	47K	RS_47K	R10	RES 47.0K OHM 1/10W 5% 0603 SMD	1
RESC1608L	27K	RS_27K	R11	RES 27K OHM 1/10W 5% 0603 SMD	1
RESC1608L	39K	RS_39K	R12	RES 39K OHM 1/10W 5% 0603 SMD	1
RESC1608L	47K	RS_47K	R14	RES 47.0K OHM 1/10W 5% 0603 SMD	1
RESC1608L	24K	RS_24K	R15	RES 24K OHM 1/10W 5% 0603 SMD	1
RESC1608L	10K	RS_10K	R18, R19	RES 10.0K OHM 1/10W 5% 0603 SMD	2
RESC1608L	27R	RS_27R	R20, R21	RES 27 OHM 1/10W 5% 0603 SMD	2
RESC1608L	2K	RS_2K	R22, R23	RES 2K OHM 1/10W 5% 0603 SMD	2
RESC3216L	1R	RT_1R	R24	RES 1R OHM 1/4W 5% 1206 SMD	1
RESC1608L	360R	RS_360R	R25, R26	RES 360 OHM 1/10W 5% 0603 SMD	2
DIP_SW_4W	W5_SW DIP-4	WS_SW_DIP-4	S1	DIP Switch, 4 Position, SPST SMD	1
EVQPNF09M	RESET	WS_EVQPNF09	S2	Parasonic 6 x 3.5mm SMD Light Touch Swt	1
EVQPNF09M	SLEEP	WS_EVQPNF09	S3	Parasonic 6 x 3.5mm SMD Light Touch Swt	1
SOT23_L	BSH105,215	TM_BSH105	T1	MOSFET N-CH 20V 1.05A SOT-23	1
TP_0603	IMU Int Alt	TP_0603	TP1	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	IMU Data Alt	TP_0603	TP2	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	IMU Clock Alt	TP_0603	TP3	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	Piezo Alt	TP_0603	TP4	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	Piezo Alt	TP_0603	TP5	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	TP_0603	TP_0603	TP6	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	ERASE	TP_0603	TP7	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	Piezo 22	TP_0603	TP12	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	Piezo 21	TP_0603	TP13	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	Piezo 12	TP_0603	TP14	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	Piezo 11	TP_0603	TP15	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	3V3 Radio	TP_0603	TP16	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	HPEDZ	TP_0603	TP17	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	5V	TP_0603	TP18	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	VBUS	TP_0603	TP19	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	3V3	TP_0603	TP20	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	4BATT	TP_0603	TP21	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	Buzzer Low	TP_0603	TP22	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	SWDIO	TP_0603	TP23	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	LED Signal	TP_0603	TP24	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	Radio MISO	TP_0603	TP25	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	Radio MOSI	TP_0603	TP26	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	IMU DATA	TP_0603	TP27	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	IMU INT	TP_0603	TP28	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	Buzzer High	TP_0603	TP29	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	SWCLK	TP_0603	TP30	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	Radio CLK	TP_0603	TP31	Test Point 1.650X 0X1.2mm SMD	1
TP_0603	IMU CLK	TP_0603	TP32	Test Point 1.650X 0X1.2mm SMD	1
NRFP24	rRF24 SMD	MPU-9250	U1	9 axis IMU	1
NRFP24	rRF24 SMD	NRFP24	U2	rRF24 SMD Module	1
HTSOP18	DRV8833	DRV8833	U3	Dual H-Bridge Motor Driver 1.5A	1
SOT23-6_N	SN74LVC1T45	SN74LVC1T45	U4, U7, U8	1.8V - 5V level converter	3
RD_8_1	Comment	ADP2302ARDZ-4	U5	IC REG BUCK 5V 2A eSOIC	1
SOT992P280X	CAT61219-330TDX	SV_CAT61219-33	U6, U9	IC REG LIN 3.3V 900mA TSOT23-5	2
LQFP64_1	Comment	SE_ATSAM51H	U10	IC MCU 32BIT 512KB FLASH 64LQFP	1
Joystick_Sw	Joystick 16k with	XT	U11	JOYSTICK 16K OHM 2 AXES TH	1
6.0X3.5-4	12MHz	XT_CRYSTAL	T1	CRYSTAL 12MHz 18PF 603.5mm SMD	1

Approved	Notes