



Title			
Size	Number	Revision	
A2			
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Bill of Materials

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Source Data From: PCB_Quadcopter.PrjPCB
Project: PCB_Quadcopter.PrjPCB
Variant: None

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Footprint	Comment	LibRef	Designator	Description	Quantity
PN1	ANT	ANT	ANT1	Anten	1
C Tantalum S.A	1uF	C Tantalum S.A	C1, C2	Midget Conformal Coated Solid Tantalum Chip Capacitor: 1.5uF, 20% Tolerance, 15 WVDC @ +85°C, Surge = 20V	2
C-0805	0.1uF	Cap Ceramic	C1, C3	Capacitor (Semiconductor SIM Model)	2
C-0805	10nF	Cap Ceramic	C2	Capacitor (Semiconductor SIM Model)	1
C-0805	2.2nF	Cap Ceramic	C4	Capacitor (Semiconductor SIM Model)	1
C-0603	100nF	Cap Ceramic	C8, C9	Capacitor (Semiconductor SIM Model)	2
C-0805	20pF	Cap Ceramic	C10, C11	Capacitor (Semiconductor SIM Model)	2
C-0805	2.2uF	Cap Ceramic	C11, C12	Capacitor (Semiconductor SIM Model)	2
C-0805	100nF	Cap Ceramic	C13, C14, C16, C17, C18, C19, C20, C21, C22, C23	Capacitor (Semiconductor SIM Model)	10
C-0805	1uF	Cap Ceramic	C15	Capacitor (Semiconductor SIM Model)	1
C Tantalum S.A	10uF	C Tantalum S.A	C19, C20	Midget Conformal Coated Solid Tantalum Chip Capacitor: 1.5uF, 20% Tolerance, 15 WVDC @ +85°C, Surge = 20V	2
C-0805	104	Cap Ceramic	C21, C22, C32	Capacitor (Semiconductor SIM Model)	3
C-0803	22pF	Cap Ceramic	C24, C25	Capacitor (Semiconductor SIM Model)	2
C-0402	33nF	Cap Ceramic	C26	Capacitor (Semiconductor SIM Model)	1
C-0402	2.2nF	Cap Ceramic	C27	Capacitor (Semiconductor SIM Model)	1
C-0402	4.7pF	Cap Ceramic	C28	Capacitor (Semiconductor SIM Model)	1
C-0402	1.5pF	Cap Ceramic	C29	Capacitor (Semiconductor SIM Model)	1
C-0402	1pF	Cap Ceramic	C30	Capacitor (Semiconductor SIM Model)	1
C-0805	33pF	Cap Ceramic	C31	Capacitor (Semiconductor SIM Model)	1
C-0603	22uF	Cap Ceramic	C33	Capacitor (Semiconductor SIM Model)	1
C-0603	4.7uF	Cap Ceramic	C34	Capacitor (Semiconductor SIM Model)	1
C-0603	1uF	Cap Ceramic	C35	Capacitor (Semiconductor SIM Model)	1
1N4007 SMD	1N4007	1N4007	D1	1 Amp General Purpose Rectifier	1
QFN-24_N	MPU6050	MPU6050	IMU1		1
LPCC-16	HMC5883L	HMC5883L	IMU2		1
CDRH127 12.3x12.3x8 mm	fcm1608-0603	Inductor	L1	Inductor	1
u0402	2.7nH	Inductor	L2	Inductor	1
u0402	3.9nH	Inductor	L3	Inductor	1
u0402	8.2nH	Inductor	L3	Inductor	1
LED-0805	ORANGE	LED	LD3	Typical INFRARED GaAs LED	1
LED-0805	GREEN	LED	LD4	Typical INFRARED GaAs LED	1
LED-0805	RED	LED	LD5	Typical INFRARED GaAs LED	1
LED-0805	BLUE	LED	LD6	Typical INFRARED GaAs LED	1
LQFP100_V6	STM32F407VGT6	STM32F407VGT6	MCU	ARM Cortex-M4 32b MCU+FPU, 210DMIP, 1024 kB Flash, 192+4 kB RAM, Camera, 82 I/Os, 100-pin LQFP, -40 to +85°C, Tray	1
HDR1X2	Header 2	Header 2	P1	Header, 2-Pin	1
HDR1X3	PWM	Header 3	P2, P3, P4, P5	Header, 3-Pin	4
HDR1X6	Input_Rx	Header 6	P6	Header, 6-Pin	1
HDR1X4	UART	Header 4	P7	Header, 4-Pin	1
R-0805	10k	RES	R1, R2, R13, R16	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 1/8W	4
R-0603	4.7k	RES	R3, R4	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 1/8W	2
R-0805	510	RES	R5, R14, R17	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 1/8W	3
R-0805	680	RES	R6, R7, R8	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 1/8W	3
R-0805	100k	RES	R9	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 1/8W	1
R-0805	100	RES	R10	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 1/8W	1
R-0805	330	RES	R11	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 1/8W	1
R-0805	220k	RES	R12	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 1/8W	1
R-0805	220	RES	R15	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 1/8W	1
R-0805	47	RES	R18	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 1/8W	1
R-0805	4.7k	RES	R19, R20	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 1/8W	2
R-0402	1M	RES	R21	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 1/8W	1
R-0603	22K	RES	R27	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 1/8W	1
SB	SB	SB	SB1, SB2, SB3, SB4, SB5, SB6		6
SB3	SB3	SB3	SB7		1
DPST-4	BUTTON B1	BUTTOND	SW	BUTTON	1
DPST-4	BUTTON B2	BUTTOND	SW	BUTTON	1
QFN-20	nRF24L01	nRF24L01	US		1
SOT223_N	LM1117MPX3.3	LM1117MPX3.3	U4	800mA Low-Dropout Linear Regulator, 4-pin SOT-223	1
XTAL	8Mhz	XTAL	X1	Crystal Oscillator	1
XTAL	16Mhz	XTAL	Y1	Crystal Oscillator	1

Approved	Notes