

Reference	Value	Qty	Unit Price	Total Price	Footprint	Datasheet	DigiKey
C1,C4,C5,C9, C10,C13,C14, C17,C18	0.1 uF	9	0.08	0.72	Capacitor_SMD:C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	<a href="https://yageogroup.com/content/datasheet/asset/file/KEM_C1002_X7R_SMD">https://yageogroup.com/content/datasheet/asset/file/KEM_C1002_X7R_SMD</a>	<a href="https://www.digikey.com/en/products/detail/kemet/C0603C104K5RACTU/1465594">https://www.digikey.com/en/products/detail/kemet/C0603C104K5RACTU/1465594</a>
C2,C3,C8	1 uF	3	0.08	0.24	Capacitor_SMD:C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	<a href="https://yageogroup.com/content/datasheet/asset/file/KEM_C1002_X7R_SMD">https://yageogroup.com/content/datasheet/asset/file/KEM_C1002_X7R_SMD</a>	<a href="https://www.digikey.com/en/products/detail/kemet/C0603C105K4RACTU/2199788">https://www.digikey.com/en/products/detail/kemet/C0603C105K4RACTU/2199788</a>
C6	10 uF	1	0.28	0.28	Capacitor_SMD:C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	<a href="https://yageogroup.com/content/datasheet/asset/file/KEM_C1006_X5R_SMD">https://yageogroup.com/content/datasheet/asset/file/KEM_C1006_X5R_SMD</a>	<a href="https://www.digikey.com/en/products/detail/kemet/C0603C106M9PACTU/1950664">https://www.digikey.com/en/products/detail/kemet/C0603C106M9PACTU/1950664</a>
C7	100 uF	1	0.53	0.53	Capacitor_SMD:C_0805_2012Metric_Pad1.18x1.45mm_HandSolder	<a href="https://search.murata.co.jp/Ceramy/image/img/A01X/G101/ENG/GRM21BR60G107ME11-01.pdf">https://search.murata.co.jp/Ceramy/image/img/A01X/G101/ENG/GRM21BR60G107ME11-01.pdf</a>	<a href="https://www.digikey.com/en/products/detail/murata-electronics/GRM21BR60G107ME11L/6155750">https://www.digikey.com/en/products/detail/murata-electronics/GRM21BR60G107ME11L/6155750</a>
C12	22 uF	1	0.13	0.13	Capacitor_SMD:C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	<a href="https://search.murata.co.jp/Ceramy/image/img/A01X/G101/ENG/GRM188R61A226ME15-01.pdf">https://search.murata.co.jp/Ceramy/image/img/A01X/G101/ENG/GRM188R61A226ME15-01.pdf</a>	<a href="https://www.digikey.com/en/products/detail/murata-electronics/GRM188R61A226ME15D/5027561">https://www.digikey.com/en/products/detail/murata-electronics/GRM188R61A226ME15D/5027561</a>
CR1,CR2,CR3	SS24FL	3	0.27	0.81	Diode_SMD:D_SOD-123F	<a href="https://www.onsemi.com/pdf/datasheet/ss26ft-d.pdf">https://www.onsemi.com/pdf/datasheet/ss26ft-d.pdf</a>	<a href="https://www.digikey.com/en/products/detail/onsemi/SS24FL/5305066">https://www.digikey.com/en/products/detail/onsemi/SS24FL/5305066</a>
J1	S2B-PH-K-SLFSN	1	0.11	0.11	Connector_JST:JST_PH_S2B-PH-K_1x02_P2.00mm_Horizontal	<a href="https://www.jst-mfg.com/product/pdf/eng/ePH.pdf">https://www.jst-mfg.com/product/pdf/eng/ePH.pdf</a>	<a href="https://www.digikey.com/en/products/detail/jst-sales-america-inc/S2B-PH-K-S/926626">https://www.digikey.com/en/products/detail/jst-sales-america-inc/S2B-PH-K-S/926626</a>
J2	10104110-0001LF	1	0.81	0.81	Connector_USB:USB_Micro-B_Ampheno_10104110_Horizontal	<a href="https://cdn.amphenol-cs.com/media/wysiwyg/files/documentation/datasheet/inputoutput/io_usb_micro.pdf">https://cdn.amphenol-cs.com/media/wysiwyg/files/documentation/datasheet/inputoutput/io_usb_micro.pdf</a>	<a href="https://www.digikey.com/en/products/detail/amphenol-cs-fci/10104110-0001LF/2350353?sfvrsn=4">https://www.digikey.com/en/products/detail/amphenol-cs-fci/10104110-0001LF/2350353?sfvrsn=4</a>
M1,M2	Motor_DC	2	6.88	13.76	Connector_Wire:SolderWire-0.25sqmm_1x02_P4.2mm_D0.65mm	<a href="https://www.amazon.com/dp/B01480X6IK?psc=1&amp;smid=A1THAZDOWP300U&amp;ref_=chk_typ_imgToDp">https://www.amazon.com/dp/B01480X6IK?psc=1&amp;smid=A1THAZDOWP300U&amp;ref_=chk_typ_imgToDp</a>	
M3,M4,M5,M6	Motor_DC	4	6	24	Connector_Wire:SolderWire-0.25sqmm_1x02_P4.2mm_D0.65mm	<a href="https://www.amazon.com/Electromagnetic-actuator-Magnetic-Ornithopter-Airplanes/dp/B075KKWM8G">https://www.amazon.com/Electromagnetic-actuator-Magnetic-Ornithopter-Airplanes/dp/B075KKWM8G</a>	
Q1,Q2	IRLML2502TRPbF	2	0.14	0.28	Package_TO_SOT_SMD:SOT-23W_Handsoldering	<a href="https://www.infineon.com/assets/row/public/documents/24/49/infineon-irlml2502-datasheet-en.pdf">https://www.infineon.com/assets/row/public/documents/24/49/infineon-irlml2502-datasheet-en.pdf</a>	
R1,R2,R3,R4	10K	4	0.1	0.4	Resistor_SMD:R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	<a href="https://yageogroup.com/content/datasheet/asset/file/PYU-RC_GROUP_51_ROHS_L">https://yageogroup.com/content/datasheet/asset/file/PYU-RC_GROUP_51_ROHS_L</a>	<a href="https://www.digikey.com/en/products/detail/yageo/RC0603FR-0710KL/726880">https://www.digikey.com/en/products/detail/yageo/RC0603FR-0710KL/726880</a>
R5,R6	4.7K	2	0.1	0.2	Resistor_SMD:R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	<a href="https://yageogroup.com/content/datasheet/asset/file/PYU-RC_GROUP_51_ROHS_L">https://yageogroup.com/content/datasheet/asset/file/PYU-RC_GROUP_51_ROHS_L</a>	<a href="https://www.digikey.com/en/products/detail/yageo/RC0603FR-074K7L/727212">https://www.digikey.com/en/products/detail/yageo/RC0603FR-074K7L/727212</a>
R7,R8	22	2	0.1	0.2	Resistor_SMD:R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	<a href="https://yageogroup.com/content/datasheet/asset/file/PYU-RC_GROUP_51_ROHS_L">https://yageogroup.com/content/datasheet/asset/file/PYU-RC_GROUP_51_ROHS_L</a>	<a href="https://www.digikey.com/en/products/detail/yageo/RC0603FR-0722RL/727055">https://www.digikey.com/en/products/detail/yageo/RC0603FR-0722RL/727055</a>
R9	30.1K	1	0.1	0.1	Resistor_SMD:R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	<a href="https://yageogroup.com/content/datasheet/asset/file/PYU-RC_GROUP_51_ROHS_L">https://yageogroup.com/content/datasheet/asset/file/PYU-RC_GROUP_51_ROHS_L</a>	<a href="https://www.digikey.com/en/products/detail/yageo/RC0603FR-0730K1L/727142">https://www.digikey.com/en/products/detail/yageo/RC0603FR-0730K1L/727142</a>
R10	52.3K	1	0.1	0.1	Resistor_SMD:R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	<a href="https://yageogroup.com/content/datasheet/asset/file/PYU-RC_GROUP_51_ROHS_L">https://yageogroup.com/content/datasheet/asset/file/PYU-RC_GROUP_51_ROHS_L</a>	<a href="https://www.digikey.com/en/products/detail/yageo/RC0603FR-0752K3L/727290">https://www.digikey.com/en/products/detail/yageo/RC0603FR-0752K3L/727290</a>
U1	ATSAMD21G18A-A	1	4.25	4.25	Package_QFP:TQFP-48_7x7mm_P0.5mm	<a href="https://ww1.microchip.com/downloads/aemDocuments/documents/MCU32/ProductDocuments/DataSheets/SAM-D21-DA1-Family-Data-Sheet-DS40001882.pdf">https://ww1.microchip.com/downloads/aemDocuments/documents/MCU32/ProductDocuments/DataSheets/SAM-D21-DA1-Family-Data-Sheet-DS40001882.pdf</a>	<a href="https://www.digikey.com/en/products/detail/microchip-technology/ATSAMD21G18A-AUT/4878867">https://www.digikey.com/en/products/detail/microchip-technology/ATSAMD21G18A-AUT/4878867</a>
U2	TPS73733DCQR	1	1.67	1.67	Package_TO_SOT_SMD:SOT-23-5	<a href="https://www.ti.com/lit/ds/symlink/tps737.pdf?HQS=dis-dk-null-digikeymode-dsf-pf-null-null-we&amp;t=1771896635102&amp;ref_url=https%253A%252F%252Fwww.ti.com%252Fgeneral%252Fdocs%252Fsuppproductinfo.tsp%253FdistId%253D10%2526gotourl%253Dhttps%253A%252F%252Fwww.ti.com%252Flit%252Fgon%252Ftps737">https://www.ti.com/lit/ds/symlink/tps737.pdf?HQS=dis-dk-null-digikeymode-dsf-pf-null-null-we&amp;t=1771896635102&amp;ref_url=https%253A%252F%252Fwww.ti.com%252Fgeneral%252Fdocs%252Fsuppproductinfo.tsp%253FdistId%253D10%2526gotourl%253Dhttps%253A%252F%252Fwww.ti.com%252Flit%252Fgon%252Ftps737</a>	<a href="https://www.digikey.com/en/products/detail/texas-instruments/TPS73733DCQR/1698963">https://www.digikey.com/en/products/detail/texas-instruments/TPS73733DCQR/1698963</a>
U3	B3U-1000P	1	0.9	0.9	Button_Switch_SMD:SW_SPST_B3U-1000P	<a href="https://omronfs.omron.com/en_US/ecb/products/pdf/en-b3u.pdf">https://omronfs.omron.com/en_US/ecb/products/pdf/en-b3u.pdf</a>	<a href="https://www.digikey.com/en/products/detail/omron-electronics-inc-emo-div/B3U-1000P/1534338">https://www.digikey.com/en/products/detail/omron-electronics-inc-emo-div/B3U-1000P/1534338</a>
U6	BMI323	1	3.27	3.27	Package_LGA:Bosch_LGA-14_3x2.5mm_P0.5mm	<a href="https://www.bosch-sensortec.com/media/bosch-sensortec/downloads/datasheets/bst-bmi323-ds000.pdf">https://www.bosch-sensortec.com/media/bosch-sensortec/downloads/datasheets/bst-bmi323-ds000.pdf</a>	<a href="https://www.digikey.com/en/products/detail/bosch-sensortec/BMI323/16719593">https://www.digikey.com/en/products/detail/bosch-sensortec/BMI323/16719593</a>
U8	TB6612FNG_C_8_EL	1	1.82	1.82	Package_SO:SSOP-24_5.3x8.2mm_P0.65mm	<a href="https://toshiba.semicon-storage.com/info/TB6612FNG_datasheet_en_20141001.pdf?id=10660&amp;prodName=TB6612FNG">https://toshiba.semicon-storage.com/info/TB6612FNG_datasheet_en_20141001.pdf?id=10660&amp;prodName=TB6612FNG</a>	<a href="https://www.digikey.com/en/products/detail/toshiba-semiconductor-and-storage/TB6612FNG-C-8-EL/1730070?sfvrsn=4">https://www.digikey.com/en/products/detail/toshiba-semiconductor-and-storage/TB6612FNG-C-8-EL/1730070?sfvrsn=4</a>