

Designation	Datasheet	Part number	Description	Quote Source	Quote number	No	Estimated Price in singletons (5 Exc VAT)	Column
J2 PinHeader: 01x12	https://eu.mouser.com/datasheet/2/181/M20-999145-7qs-GA6PinMZZHuTl8R8eYtOF9X70dAn	Conn. 01x12 PIN HEAD 12 pins, 2.54 mm spacing single line, male gold plated pin head	https://www.mouser.com/ProductDetail/Harwin/M20-999145-7qs-GA6PinMZZHuTl8R8eYtOF9X70dAn	Mouser Price/Stock	1	1	0.5	0.5
J1 EXT GPS antenna connector	http://www.molex.com/pdm_docs/doc/734110-010	73411-0110 50 Ohms, MCRR, PCB Vertical Jack Receptacle, SMT, 1.25mm Mounted Height	https://www.mouser.com/Search/Refine.aspx?keyword=538-73411-0110	Mouser Price/Stock	1	1	0.8	0.8
IC1 BC846BPN	https://assets.nxp.com/asset/documents/BC846BPN.pdf	BC846BPN 100mA IC, 65V Vce, Dual NPN/PNP Transistors, SOT-363	https://www.digkey.se/product-detail/sv/nxp/enr-usa-inc/BC846BPN115/1727-4846-1/M/2531344	Mouser Price/Stock	1	1	0.4	0.4
IC6 LMD-1439	https://docs.emea.europa.eu/webdocs/1474/090076681474b2f2.pdf	LMD-1439 L80 GPS Module	https://uk.rs-online.com/web/p/products/9084088	RS Price/Stock	1	1	15	15
IC7	https://api.kemet.com/component-edge/download/datasheet/74918106K016AT7280.pdf	74918106K016AT7280 Tantulum Capacitors - Solid SMD 16V 10uF 1311 10% ESR-20hms	https://www.mouser.com/Search/Refine.aspx?keyword=80-74918106K016AT7280	Mouser Price/Stock	1	1	0.5	0.5
IC8	https://api.kemet.com/component-edge/download/datasheet/74918106K016AT7280.pdf	74918106K016AT7280 Tantulum Capacitors - Solid SMD 16V 10uF 1311 10% ESR-20hms	https://www.mouser.com/Search/Refine.aspx?keyword=80-74918106K016AT7280	Mouser Price/Stock	1	1	0.5	0.5
IC9	https://api.kemet.com/component-edge/download/datasheet/74918106K016AT7280.pdf	74918106K016AT7280 Tantulum Capacitors - Solid SMD 16V 10uF 1311 10% ESR-20hms	https://www.mouser.com/Search/Refine.aspx?keyword=80-74918106K016AT7280	Mouser Price/Stock	1	1	0.5	0.5
IC3 10uF	https://api.kemet.com/component-edge/download/datasheet/CM0603103K4RACU.pdf	CM0603103K4RACU KEMET - CM0603103K4RACU - CAP, 0.01F, 16V, 10%, X7R, 0603	https://www.alldalelec.com/Kemet-CM0603103K4RACU/70097263/	Allied Price/Stock	1	1	0.05	0.05
R2 1k	https://www.digkey.se/en/datasheets/yageo/yageo-pyv-r-marking_2	RC0201JR-071KL YAGEO - RC0201JR-071KL - RES, THICK FILM, 1K, 5%, 0.5W, 0201, REEL	https://www.mouser.com/Search/Refine.aspx?keyword=603-RC0201JR-071KL	Mouser Price/Stock	1	1	0.11	0.11
R3 100k	https://www.digkey.se/en/datasheets/yageo/yageo-pyv-r-marking_2	YAGEO - RC0201JR-071KL - RES, THICK FILM, 1K, 5%, 0.5W, 0201, REEL	https://www.mouser.com/Search/Refine.aspx?keyword=603-RC0201JR-071KL	Mouser Price/Stock	1	1	0.11	0.11
R8 100k	https://www.yageo.com/documents/recent/PVU-RC0201_1_R0HS_1_8.pdf	RC0201JR-0710KL YAGEO - RC0201JR-0710KL - RES, THICK FILM, 100K, 5%, 0.5W, 0201	https://www.mouser.com/Search/Refine.aspx?keyword=603-RC0201JR-0710KL	Mouser Price/Stock	1	1	0.11	0.11
R9 100k	https://www.yageo.com/documents/recent/PVU-RC0201_1_R0HS_1_8.pdf	YAGEO - RC0201JR-0710KL - RES, THICK FILM, 100K, 5%, 0.5W, 0201	https://www.mouser.com/Search/Refine.aspx?keyword=603-RC0201JR-0710KL	Mouser Price/Stock	1	1	0.11	0.11
R8 100k	https://www.yageo.com/documents/recent/PVU-RC0201_1_R0HS_1_8.pdf	YAGEO - RC0201JR-0710KL - RES, THICK FILM, 100K, 5%, 0.5W, 0201	https://www.mouser.com/Search/Refine.aspx?keyword=603-RC0201JR-0710KL	Mouser Price/Stock	1	1	0.11	0.11
R9 100k	https://www.yageo.com/documents/recent/PVU-RC0201_1_R0HS_1_8.pdf	YAGEO - RC0201JR-0710KL - RES, THICK FILM, 100K, 5%, 0.5W, 0201	https://www.mouser.com/Search/Refine.aspx?keyword=603-RC0201JR-0710KL	Mouser Price/Stock	1	1	0.11	0.11
U2 MPU-9250	http://www.digkey.se/en/datasheets/yageo/yageo-pyv-r-marking_2	RC0201JR-0710KL THICK FILM CHIP RESISTORS	https://www.mouser.com/Search/Refine.aspx?keyword=603-RC0201JR-0710KL	Mouser Price/Stock	1	1	0.11	0.11
U1 BME280	https://43rtzmvxbv2gZ9r50aThu-wpeneign.netdna-ssl.com/wp-content/uploads/2015/02/PS-MPU-9	InvenSense 9-Axis Motion Sensor, Accelerometer, Gyroscope, Compass, 12C/SP	https://www.digkey.se/product-detail/sv/fsk/invenSense/MPU-9250/1428-1019-1/M/4626450	Mouser Price/Stock	1	1	2.8	2.8
U1 BME280	https://ae-ts2.resource.bosch.com/media/_tech/media/documents/BST-BME280-DS002.pdf	BME280 It is a digital 3 in 1 sensor with humidity, pressure and temperature measurements, I2G+8	https://www.digkey.se/product-detail/sv/bosch-sensortec/BME280/828-1063-1/M/6136314	Mouser Price/Stock	1	1	7	7
R1 10k	https://www.yageo.com/documents/recent/PVU-RC0201_1_R0HS_1_8.pdf	RC0201JR-0710KL THICK FILM CHIP RESISTORS	https://www.mouser.com/Search/Refine.aspx?keyword=603-RC0201JR-0710KL	Mouser Price/Stock	1	1	0.11	0.11
IC4 10uF	https://api.kemet.com/component-edge/download/datasheet/CM0603103K4RACU.pdf	CM0603103K4RACU KEMET - CM0603103K4RACU - CAP, 0.01F, 16V, 10%, X7R, 0603	https://www.alldalelec.com/Kemet-CM0603103K4RACU/70097263/	Allied Price/Stock	1	1	0.05	0.05
IC3 10uF	https://content.kemet.com/datasheets/KEM_C1002_X7R-20.pdf	CM0402104M8RACU Multilayer Ceramic Capacitors MLCC - SMD Mount, 10uF 16V 20% X7R	https://www.mouser.com/Search/Refine.aspx?keyword=80-CM0402104M8R	Mouser Price/Stock	1	1	0.11	0.11
LED1 EXT ANT	https://docs.emea.europa.eu/webdocs/156b/09007668156b2c9.pdf	SMT-D130W786A ROHM SMT-D130W786A, SML 608 nm Orange LED, 1600s (6003) Milky White SMD package	https://www.mouser.com/Search/Refine.aspx?keyword=755-SMT-D130W786A	Mouser Price/Stock	1	1	0.55	0.55
LED3 Status Status	https://docs.broadcom.com/docs/AV02-4194EN	ASMB-MTB1-0A3A2 Tricolor Blue Surface LED, Common Anode Pin 4, P-CC-4	https://eu.mouser.com/ProductDetail/Broadcom-Avago/ASMB-MTB1-0A3A2?qs=x2FhaZyFaduUv5QcUvF3HmZ4mZ3C9hZQnYq4y7	Mouser Price/Stock	1	1	0.6	0.6
S1 RST	http://www.mouser.com/assets/62/60/ats-1100738.pdf	ATS2D1G_NC_LF5 Tactile Switches I/OA 32VDC 50mA On-On (Pin) SMD IP45	https://www.mouser.com/Search/Refine.aspx?keyword=611-ATS2D1GNC1F5	Mouser Price/Stock	1	1	0.7	0.7
S2 CALIB	http://www.mouser.com/assets/62/60/ats-1100738.pdf	ATS2D1G_NC_LF5 Tactile Switches I/OA 32VDC 50mA On-On (Pin) SMD IP45	https://www.mouser.com/Search/Refine.aspx?keyword=611-ATS2D1GNC1F5	Mouser Price/Stock	1	1	0.7	0.7
IC1 10uF	https://api.kemet.com/component-edge/download/datasheet/CM0603103K4RACU.pdf	CM0603103K4RACU KEMET - CM0603103K4RACU - CAP, 0.01F, 16V, 10%, X7R, 0603	https://www.alldalelec.com/Kemet-CM0603103K4RACU/70097263/	Allied Price/Stock	1	1	0.05	0.05
IC3 10uF	https://api.kemet.com/component-edge/download/datasheet/CM0603103K4RACU.pdf	CM0603103K4RACU KEMET - CM0603103K4RACU - CAP, 0.01F, 16V, 10%, X7R, 0603	https://www.alldalelec.com/Kemet-CM0603103K4RACU/70097263/	Allied Price/Stock	1	1	0.05	0.05
IC2 10uF	https://api.kemet.com/component-edge/download/datasheet/CM0603103K4RACU.pdf	CM0603103K4RACU KEMET - CM0603103K4RACU - CAP, 0.01F, 16V, 10%, X7R, 0603	https://www.alldalelec.com/Kemet-CM0603103K4RACU/70097263/	Allied Price/Stock	1	1	0.05	0.05
R15 10k	https://www.yageo.com/documents/recent/PVU-RC0201_1_R0HS_1_8.pdf	RC0201JR-0710KL THICK FILM CHIP RESISTORS	https://www.mouser.com/Search/Refine.aspx?keyword=603-RC0201JR-0710KL	Mouser Price/Stock	1	1	0.11	0.11
R16 10k	https://www.yageo.com/documents/recent/PVU-RC0201_1_R0HS_1_8.pdf	RC0201JR-0710KL THICK FILM CHIP RESISTORS	https://www.mouser.com/Search/Refine.aspx?keyword=603-RC0201JR-0710KL	Mouser Price/Stock	1	1	0.11	0.11
R2 62	https://www.yageo.com/documents/recent/PVU-RC0402_1_R0HS_1_6.pdf	RC0402JR-0762RL Thick Film Resistors - SMD 62 OHM 5%	https://eu.mouser.com/ProductDetail/Yageo/RC0402JR-0762RL?qs=x2FhaZyFaduUv5QcUvF3HmZ4mZ3C9hZQnYq4y7	Mouser Price/Stock	1	1	0.11	0.11
R11 62	https://www.yageo.com/documents/recent/PVU-RC0402_1_R0HS_1_6.pdf	RC0402JR-0762RL Thick Film Resistors - SMD 62 OHM 5%	https://eu.mouser.com/ProductDetail/Yageo/RC0402JR-0762RL?qs=x2FhaZyFaduUv5QcUvF3HmZ4mZ3C9hZQnYq4y7	Mouser Price/Stock	1	1	0.11	0.11
R12 62	https://www.yageo.com/documents/recent/PVU-RC0402_1_R0HS_1_6.pdf	RC0402JR-0762RL Thick Film Resistors - SMD 62 OHM 5%	https://eu.mouser.com/ProductDetail/Yageo/RC0402JR-0762RL?qs=x2FhaZyFaduUv5QcUvF3HmZ4mZ3C9hZQnYq4y7	Mouser Price/Stock	1	1	0.11	0.11
R13 62	https://www.yageo.com/documents/recent/PVU-RC0402_1_R0HS_1_6.pdf	RC0402JR-0762RL Thick Film Resistors - SMD 62 OHM 5%	https://eu.mouser.com/ProductDetail/Yageo/RC0402JR-0762RL?qs=x2FhaZyFaduUv5QcUvF3HmZ4mZ3C9hZQnYq4y7	Mouser Price/Stock	1	1	0.11	0.11
LED3 GMS-L13X	http://www.rohm.com/web/globa/datasheet/SML-D13FW/sml-d13x-e	SMT-D13FW786 ROHM SMT-D13FW786, SML 566 nm Green LED, 1600 (6030) Milky White SMD package	https://www.mouser.com/Search/Refine.aspx?keyword=755-SML-D13FW786	Mouser Price/Stock	1	1	0.55	0.55
LED4 130	http://www.vishay.com/docs/20033/dwcrc36.pdf	CRCW0402130R8E RESISTOR, 0402 130 OHM +/-5% 0.63W	https://www.mouser.com/Search/Refine.aspx?keyword=71-CRCW0402130R8E	Mouser Price/Stock	1	1	0.11	0.11
J3 PinHeader: 01x16	https://eu.mouser.com/datasheet/2/181/M20-999145-7qs-GA6PinMZZHuTl8R8eYtOF9X70dAn	Conn. 01x16 PIN HEAD 16 pins, 2.54 mm spacing single line, male gold plated pin head	https://eu.mouser.com/ProductDetail/Harwin/M20-999145-7qs-GA6PinMZZHuTl8R8eYtOF9X70dAn	Mouser Price/Stock	1	1	0.7	0.7
GRAND TOTAL SPOT MARKET SINGLETON COMPONENT COST \$, EXCL. VAT, SHIPPING AND LOW VOLUME LOGISTICS-, EXPEDITING- AND MANUFACTURING SET-UP TIME:								33.6