















Comment	Description	Designator	Footprint	LibRef	Sample	Part number	Quantity
10uF	Capacitor ceramic X7R	C1, C2	FP_1206_CAP_085	Cap			2
20pF	Capacitor	C3, C4	FP_0603_CAP_080	Cap		20pF_0603_50V_NPO_5percent	2
mini USB	mini USB	C5	USB/SM0.8-6H5	mini USB			1
100nF	Capacitor	C6, C7, C8, C9, C10, C11, C12, C13, C18, C32, C34, C44	FP_0603_CAP_080	Cap	82-10-85	100nF_0603_50V_X7R_10percent	12
10uF	Capacitor	C47, C130	FP_0805_CAP_085	CAP	82-08-17	10uF_0805_10V_X5R_10percent	2
Stereo_Jack	Stereo_Jack	Con1	STEREO_JACK	Stereo_Jack			1
Buzzer	Buzzer	D2	Buzzer_MB512XX X	Buzzer			1
5.6V Zener	5.6V ±5% 300mW 1uA @ 2.5V SOD-323 Zener Diodes RoHS	D3, D4, D5	FP_SOD323	5.6V Zener	<a href="https://fsc.com/product-detail/Zener-Diodes_ST-Semtech-MM3Z5V6_C48886.html">https://fsc.com/product-detail/Zener-Diodes_ST-Semtech-MM3Z5V6_C48886.html</a>	MM3Z5V6	3
ATmega328	ATmega328	IC1	TQFP32_N	ATmega328			1
BATT	Header, 2-Pin	P2	HEADER_2.54MM_M_1x2	Header 1X2			1
LEDs	Header, 3-Pin	P4	HEADER_2.54MM_M_1x3	Header 1X3			1
TSX-3225 16 MHZ	CRYSTAL, TSX-3225, 16 MHZ, 9 PF	Q1	FP_Cristal-3225	TSX-3225 25 MHZ			1
1K	Resistor	R1, R2, R3, R4, R5, R6, R8, R9, R10, R11, R19, R20, R21	FP_0603_RES	RES	80-11-59	1k_0603_1percent	13
47k	Resistor	R7, R12, R13, R14, R15, R16, R17, R18	FP_0603_RES	Res1	81-10-46	47k_0603_1percent	8
SW_tactile		SW1	BUTTON_6X6	SW_tactile			1
NCE6003	N Channel 60V 3A 2V @ 250uA 105 m? @ 3A,10V 1.7W SOT-23(SOT-23-3) MOSFET RoHS	T1	FET_SOT23	NMOS	<a href="https://fsc.com/product-detail/MOSFET_Wuxi-NCE-Power-Semiconductor-NCE6003_C112351.html">https://fsc.com/product-detail/MOSFET_Wuxi-NCE-Power-Semiconductor-NCE6003_C112351.html</a>	NCE6003	1
AO3401A	P Channel 30V 4.1A 1.3V @ 250uA 65 m? @ 4.2A,10V 350mW SOT-23 MOSFET RoHS	T2, T3, T4, T5	FET_SOT23	PMOS	<a href="https://fsc.com/product-detail/MOSFET_Umw-Yantai-Semiconductor-Co-Ltd-AO3401A_C347476.html">https://fsc.com/product-detail/MOSFET_Umw-Yantai-Semiconductor-Co-Ltd-AO3401A_C347476.html</a>	AO3401A	4
2N7002K	N-Channel MOSFET	T6, T7, T8, T9	FET_SOT23	NMOS	<a href="https://fsc.com/product-detail/MOSFET_Guangdong-Hottech-2N7002K_C181083.html">https://fsc.com/product-detail/MOSFET_Guangdong-Hottech-2N7002K_C181083.html</a>	2N7002K	4
CH330N	Transceiver USB 2.0 2Mbps SOP-8_150mil USB ICs RoHS	U1	DIGITAL_SOIC8	CH330N		CH330N	1
Quectel-L80-R	Quectel GPS module with embedded antenna	U3	Quectel-L80-R	Quectel-L80-R			1
ST LIS3DHTR	ST LIS3DHTR 3 axis accelerometer	U4	LGA 16 (3x3x1mm)	ST LIS3DHTR	<a href="http://www.mouser.in/ProductDetail/STMicroelectronics/LIS3DHTR/?qs=6la6oa3D8zxhXYax3cEo4w==">http://www.mouser.in/ProductDetail/STMicroelectronics/LIS3DHTR/?qs=6la6oa3D8zxhXYax3cEo4w==</a>	LIS3DHTR	1
Sim800L-board	Sim800L devboard with nano sim slot	U5	Sim800L-board	Sim800L-board			1
TP4056	1A Li-on battery charger	U6	Supply_SO8_PWP	TP4056	<a href="https://fsc.com/product-detail/PMIC-Battery-Management_TP4056_C382139.html">https://fsc.com/product-detail/PMIC-Battery-Management_TP4056_C382139.html</a>	TP4056	1
XC6206P332MR	Fixed 36V 5V 250mA	U22	SUPPLY_SOT23	XC6206P332MR	<a href="https://fsc.com/p">https://fsc.com/p</a>	XC6206P332MR	1