

Comment	Description	Designator	Footprint	LibRef	Quantity
100nF ~V	Ceramic capacitor	C1, C2, C3, C4, C5, C6, C10, C12, C13, C14, C15, C17, C20, C21, C22, C23, C25, C27, C28, C31, C33, C35, C36, C41	C0603 N	Capacitor	24
10uF ~V	Ceramic capacitor	C7, C8, C16, C24, C32, C38	C1206 N	Capacitor	6
10uF 25V	Ceramic capacitor	C9, C11, C18, C19	C1206 N	Capacitor	4
1uF ~V	Ceramic capacitor	C26, C39	C0603 N	Capacitor	2
4.7uF ~V	Ceramic capacitor	C29, C34	C0603 N	Capacitor	2
560pF ~V	Ceramic capacitor	C30	C0603 N	Capacitor	1
22uF ~V	Ceramic capacitor	C37	C1206 N	Capacitor	1
5pF ~V	Ceramic capacitor	C40, C43	C0603 N	Capacitor	2
100uF ~V	Polarized Capacitor	C42	AL_8x12.5x3.5	Capacitor Polarized	1
ESD9L3.3ST5G	TVS DIODE, Unidir, 3.3V/9V, 150mW, SOD-923, ESD9L3.3ST5G, ON SEMICONDUCTOR	D1, D2, D3, D4, D5, D6, D11, D14, D17, D18, D19	SOD923F, NOMINAL	ESD9L3.3ST5G	11
ESD9L5.0ST5G	TVS DIODE, Unidir, 5V/9.8V, 150mW, SOD-923, ESD9L5.0ST5G, ON SEMICONDUCTOR	D7, D8, D9, D10, D12, D13, D15, D16	SOD923F, NOMINAL	ESD9L5.0ST5G	8
MIC23050	DC-DC CONVERTER, 3.3Vout, 600mA, 2.7-5.5Vin, MIC23050, MICREL	DC-DC1	QFN-8 2x2MM, NOMINAL	MIC23050	1
TPS63070	DC-DC CONVERTER, 5Vout, 2...16Vin, buck-boost, 2A, TPS63070, TEXAS INSTRUMENTS	DC-DC2	VOFN-15, 2.5x3MM, NOMINAL	TPS63070	1
DebugUART		Debug	UART_HEADER	header 1x3 vertical	1
ExtUART		Ext	UART_HEADER	header 1x3 vertical	1
NEO-6M	GPS GLONASS module with antenna, +-2m, -162dBm, 3...5Vin	GPS	NEO-6M Module	NEO-6M	1
ICM-20948	9-axis IMU, SPI and I2C, 1.8Vin, 24QFN	IC1	QFN-24, 3x3MM, NOMINAL	ICM-20948	1
LPS22HBTR	Pressure Sensor, 260-1260 hPa, 1Hz...75Hz, 1.7...3.6Vin, 12uA, 24-bit, LPS22HBTR, HPGA-10L, STMicroelectronics	IC2	HLGA-10L, Nominal	LPS22HBTR	1
SM9333/6	Differential sensor, 1.25 or 250 Pa, 2000Hz, 3.0-5.5Vin	IC3	SOIC16, NOMINAL	SM9333/6	1
FXMA2104	Level shifter, 4 inputs, 1.65...5.5Vin, 3ns delay, FXMA2104, ON SEMICONDUCTOR	IC4	QFN12 1.8x1.8, NOMINAL	FXMA2104	1
TXB0106	Level shifter, 6 inputs, 1.2...5.5Vin, 4ns delay, TXB0106, TEXAS INSTRUMENTS	IC5	VOFN-16, 4x3.5MM, NOMINAL	TXB0106	1
LTC4412	Hot Swap Controller, 2.5...28Vin, 11uA, LTC4412, LINEAR TECHNOLOGY	IC7	SOT-23-6, NOMINAL	LTC4412	1
44914-0201	MicroFit 2-pin CPI Header, 2 Row, Vertical	J6	44914-0201	44914-0201	1
MICRO-B	Micro USB 2.0 type B, receptacle	J9	MICRO-B	MICRO-B	1
LPS3010-102MRB	Inductor, 1uH, 85mR, 1.1A, LPS3010-102MRB, COILCRAFT	L1	LPS3010	LPS3010-102MRB	1
SRP2510A-1R5M	Inductor, 1.5uH, 91mR, 2.5A, Bourns, SRP2510A-1R5M	L2	SRP2510A	SRP2510A-1R5M	1
XC6221B182MR	LDO, 1.8Vout, 1.6-6Vin, SOT-25, SMD, HIGH SPEED LOW NOISE, TOREX, XC6221B182MR	LDO1	SOT-23-5, Nominal	XC6221B182MR	1
DebugLED1	SMD mono-color Chip LED	LED1	0603 NOMINAL	Generic LED	1
DebugLED2	SMD mono-color Chip LED	LED2	0603 NOMINAL	Generic LED	1
DebugLED3	SMD mono-color Chip LED	LED3	0603 NOMINAL	Generic LED	1
Molex 2.54 3pin	Molex header, 3 pin, KK 6410 series	Left1, Left2, Right1, Right2, Sonar	22-27-2031	Molex header, 3 pin, KK 6410 series	5
AVR PDI header	Male header 2x3, PDI	PDI	Male 2x3 vertical	AVR PDI header 2x3 male	1
SIA461DJ-T1-GE3	MOSFET, P, 20V, 12A, PowerPAK SC-70-6L, SIA461DJ-T1-GE3, VISHAY	Q1, Q2	SC70-6L POWERPACK	SIA461DJ-T1-GE3	2
330R	Resistor	R1, R3, R19	R0603	Resistor	3
1K	Resistor	R2, R4, R11, R12, R18	R0603	Resistor	5
4.7K	Resistor	R5, R6	R0603	Resistor	2
1.2K	Resistor	R7, R8, R10	R0603	Resistor	3
10K	Resistor	R9	R0603	Resistor	1
1K TBD	Resistor	R13, R15, R16, R17, R20	R0603	Resistor	5
470K	Resistor	R14	R0603	Resistor	1
JS102011SAQN		SW1	JS102011SAQN	JS102011SAQN	1
ATXMEGA256A3U	MCU, 8-bit, 256KB flash, 50 I/Os, ATXMEGA256A3U, 64-TQFP, Microchip	U1	TOFP-64, NOMINAL	ATXMEGA256A3U	1
7M-16.000MAAJ-T		XTAL1	7M 3.2x2.5mm	7M-16.000MAAJ-T	1