

Item	Quantity	Designator	Description	Part #	Footprint
1	1	BT1	12mm Battery Coin Cell Holder	XYZ 3000K	BAT\SMTS
2	65	C1, C2, C3, C4, C5, C8, C11, C13, C14, C15, C16, C21, C22, C23, C27, C28, C29, C30, C31, C45, C46, C47, C48, C55, C56, C57, C68, C69, C70, C71, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C97, C98, C99, C100, C101, C102, C103, C104, C106, C107, C108, C109, C111, C112, C113, C114, C115, C116, C117, C118, C131, C137	Ceramic Chip Capacitor 0402 0.1uF 6.3V 20% X7R, Ceramic Chip Capacitor 0402 0.1uF 10V10% X5R	AVX 0402ZD104KAT2A, AVX 04026D104KAT2A	CAPC.0402
3	18	C6, C7, C9, C17, C18, C19, C20, C24, C25, C26, C44, C60, C63, C77, C105, C110, C123, C126	Capacitor, Polarized Polymer, B Case, Low ESR	Kemet T520B476M006ATE070	CAPCP.3528-21
4	1	C10	Capacitor, Polarized Polymer, B Case, Low ESR	Kemet T520B336M006ATE040	CAPCP.3528-21
5	14	C12, C33, C34, C35, C95, C96, C121, C124, C127, C128, C129, C133, C135, C136	Ceramic Chip Capacitor 0805 10uF 6.3V 20% X5R	PANASONIC ECJ-2FB0J106M	CAPC.0805
6	1	C32	Capacitor, Polarized Polymer, D Case, 2.5V, Low ESR	Kemet T520V337M2R5ATE025	CAPCP.7343-31
7	28	C36, C37, C38, C39, C40, C41, C42, C43, C49, C50, C51, C52, C53, C54, C61, C62, C64, C65, C66, C67, C72, C73, C74, C76, C78, C79, C80, C81	Ceramic Chip Capacitor 0402 0.01uF 16V 10% X7R	AVX 0402YC103KAT2A	CAPC.0402
8	2	C58, C59	Ceramic Chip Capacitor 0603 22pF 25V 5% COG	AVX 06033A220JAT2A	CAPC.0603
9	1	C75	Capacitor, Polarized Tantalum B Case 22uF 20V	AVX TAJB226M020R	CAPCP.3528-21
10	4	C119, C120, C122, C125	Capacitor, Polarized Tantalum, E Case 100uF 16V Low ESR	TPSE107K016R0100	CAPCP.7343-43
11	1	C130	Ceramic Chip Capacitor 0603 4.7uF 6.3V 20% X5R	PANASONIC ECJ-1VB0J475M	CAPC.0603
12	1	C132	Capacitor, Sanyo Poscap D Case 150uF 4V ESR=0.045	Sanyo 4TPC150M	CAPCP.7343-31
13	1	C134	Ceramic Chip Capacitor 0603 0.033uF 50V 10% X7R	AVX 06035C333KAT2A	CAPC.0603
14	9	D1, D2, D3, D4, D5, D15, D16, D17, D18	Green LED 1206	Fairchild QTLP650C4TR	LED\SMT
15	8	D6, D7, D8, D9, D10, D11, D12, D13	Red LED 1206	Fairchild QTLP650C2TR	LED\SMT
16	1	D14	Blue LED 0603	Liteon LTST-C191TBKT	LED_LITE-LTST-C191TBKT
17	3	FB1, FB2, FB3	EMI Shield Bead Bead 3612 25 ohm	Fair-Rite 2773021447	FBC.3612
18	2	HG1, HG2	Mounting Hole, Unplated		TP
19	1	J1	Tyco MAG45 RJ45 Jack	AMP 1-6605833-1	TYCO_1-6605833-1
20	2	J2, J5	Vertical SMA Connector, SMT	EJF 142-0711-201	CON_JC-142-0711
21	4	J3, J4, J8, J10	0.1" 0.230" Post, 2-Pin Header, Thru-Hole	Tyco/AMP 5-146280-2	JPR1X2
22	1	J6	0.1", Polarized Header	Molex 22-28-3030	CON_MLX-22-28-3030
23	1	J7	38-pin Mictor Connector	AMP 2-5767004-2	CON38\MICTOR
24	1	J9	2.0mm 7x2 shrouded header	Molex 87832-1420	CON_MLX-87332-1420
25	1	J11	2.5mm Thru-Hole DC Power Jack	CUI PJ-002A	PWRJACK4
26	4	JP1, JP2, JP3, JP5	0.1" 0.230" Post, 3-Pin Header, Thru-Hole	AMP 5-146280-3	JPR1X3
27	1	JP4	8X2 0.1" Header	AMP 5-146256-8	HDR8X2

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28	1	JP6	0.1" 25x2-pin Header for SystemACE Module	AMP 7-146256-5	HDR25x2
29	1	JR1	USB Type-B 4-Position Right-Angle Receptacle	AMP 292304-1	CON_AMP-787780
30	13	JT1, JT2, JT4, JT5, JT8, JT9, JT12, JT13, JT14, JT15, JT16, JT17, JT18	3-pad 0R0 0402 Jumper	Vishay CRCW04020000Z0ED	RESC.0402/DUAL
31	5	JT3, JT6, JT7, JT10, JT11	3-pad 1K0 0402 Jumper	Vishay CRCW04021K00FKEA	RESC.0402/DUAL
32	1	JX1	EXP Connector (Main Board)	Samtec QTE-060-09-F-D-A	CON_SAM-QTE-060-09-F-D-A
33	1	L1	SMT High-Current Inductor, 3.3uH, 1.4A, DCR=0.130 ohm	Coilcraft LPS3015-332MLB	See Data sheet "lps3015"
34	1	P1	DB9 Receptacle - Right-angle, Thru-hole	AMP 5747844-6	DB9FR
35	1	Q1	N-Channel enhancement mode FET	FCS 2N7002	SOT23C
36	1	Q2	Dual N-channel MOSFET 30V, 3A	STM STS2DNF30L	SO8
37	4	Q3, Q4, Q5, Q6	NPN General-Purpose Transistor	ON MMBT3904LT1G	SOT23C
38	55	R1, R2, R15, R16, R39, R41, R42, R43, R44, R47, R48, R51, R53, R55, R58, R59, R60, R61, R62, R63, R64, R67, R70, R71, R73, R74, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R98, R99, R100, R103, R96, R102, R107, R110, R113, R75, R76, R77, R78, R79, R80, R81, R82	Chip Resistor 0603 1K0 1/10W 5%	Vishay CRCW06031K00FKEA	RESC.0603
39	19	R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R37, R40, R45, R68, R72, R95, R101	Chip Resistor 0603 24R0 1/10W 5%	Vishay CRCW0603240JRT1	RESC.0603
40	9	R17, R18, R19, R20, R21, R22, R23, R24, R69	Chip Resistor 0603 100R 1/10W 5%	Vishay CRCW0603100RJNEA	RESC.0603
41	16	R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R105, R108, R111, R115	Chip Resistor 0603 49R9 1/10W 1%	Vishay CRCW060349R9FKEA	RESC.0603
42	3	R38, R66, R104	Chip Resistor 0603 0R0 1/10W	Vishay CRCW06030000Z0EA	RESC.0603
43	5	R46, R50, R52, R54, R97	Chip Resistor 0603 330 1/10W 5%	Vishay CRCW0603330RJNEA	RESC.0603
44	1	R49	Chip Resistor 0603 10M 1/10W 1%	Vishay CRCW060310M0JNEA	RESC.0603
45	1	R56	Chip Resistor 0603 18R0 1/10W 5%	Vishay CRCW060318R0JNEA	RESC.0603
46	1	R57	Chip Resistor 0603 9.76K 1/10W 1%	Vishay CRCW06039K76FKEA	RESC.0603
47	2	R65, R109	Chip Resistor 0603 475 1/10W 1%	Vishay CRCW0603475RFKEA	RESC.0603
48	1	R106	Chip Resistor 0603 36.5K 1/10W 1%	Vishay CRCW060336K5FKEA	RESC.0603
49	1	R112	Chip Resistor 0603 2.32K 1/10W 1%	Vishay CRCW06032K32FKEA	RESC.0603
50	1	R114	Chip Resistor 0402 5.11K 1/16W 1%	Vishay CRCW04025K11FKED	RESC.0402
51	1	R116	Chip Resistor 0603 100K 1/10W 5%	Vishay CRCW0603100KJNEA	RESC.0603
52	14	RP1, RP2, RP3, RP4, RP5, RP6, RP7, RP8, RP17, RP18, RP19, RP20, RP21, RP22	4-Resistor Array 3.2x1.6mm 24 ohm	Bourns CAY16-240J4LF	RPAK4LCC
53	8	RP9, RP10, RP11, RP12, RP13, RP14, RP15, RP16	4-Resistor Array 3.2x1.6mm 120R ohm	Bourns CAY16-121J4LF	RPAK4LCC
54	3	RP23, RP24, RP25	4-Resistor Array 3.2x1.6mm 4.7K ohm	Bourns CAY16-472J4LF	RPAK4LCC

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55	5	SW1, SW2, SW3, SW4, SW6	Switch, Pushbutton SPST SMD	Bourns 7914J-1-000E	SW_BOU-7914
56	1	SW5	8-position SPST DIP switch (SMT)	C&K (ITT) TDA08H0SB1	SW8/CKTDA
57	1	SW7	SPDT Slide Switch	CKS 1101M2S3CQE2	SW_C&K-1101M2S3CQE2
58	10	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10	Test Pad		TP
59	1	U1	Xilinx Virtex-5 FXT Platform FPGA	XC5VFX30T-1FFG665C	FFG665
60	2	U2, U3	DDR2 SDRAM, 256Mb	MIC MT47H16M16BG-5E:B	BGA84C80P15X9_1400X800X120
61	1	U4	10/100/1000 Ethernet PHY	NSC DP83865DVH/NOPB	QFP128-19.68
62	2	U5, U13	Single Gate Inverter	TIS SN74AHC1G04DBVR	SOT23-5
63	2	U6, U7	Single 2-Input AND Gate	TIS SN74AHC1G08DBVR	SOT23-5
64	1	U8	Dual RS-232 Transceiver	Harris ICL3222CAZ	SSOP20-25.59
65	1	U9	128Mb Intel Strata Flash, 85ns	ITL PC28F128P30T85	BGA64-8X8-1MM
66	1	U10	Single-Chip USB to UART Bridge	Silicon Labs CP2102-GM	QUAD-MLP28
67	1	U11	Fox 3.3V HCMOS SMD Oscillator, 7.5x5.2mm	FOX F4105-1000	OSC\SMDS
68	1	U12	Half-size, Oscillator Socket	DigiKey A463-ND	OSCMINI
69	1	U14	5V, 6A Adjustable Power Module	TIS PTH05050WAH	PWR_TI-PTHDUAL
70	1	U15	Voltage Supervisor	TIS TPS3828-33DBVT	SOT23-5
71	2	U16, U17	5V, 3A Adjustable Power Module	TIS PTH04000WAZ	TI_PTH04000WAZ
72	1	U18	DDR/DDR2 Memory Power Supply	TIS TPS51116PWP	TSOP65P640X120-20N
73	1	U23	8-Bit FET 2.5V/3.3V Low-Voltage Bus Switch	SN74CB3T3245DGVR	SSOP040P660-20N
74	1	Y1	Fox Plastic 4-pin SMD Crystal 12.5x4.6mm body, pins 1&4 connect	Fox FPXLF250F-20	XTAL\SMD\FPXS
75	1	D20	Diode, 200V, 200mA, HS, BAS19	NXP BAS21	SOT23