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Bill Of Materials October 23,2015 11:44:33

Item	Qty	Reference	Description	Manufacturer	Part Number	Alternate Manufacturer	Alternate Part Number
1	10	C1, C6, C7, C13, C14, C16, C17, C122, C124, C126	Capacitor, Ceramic, 10uF 25V 10% X7R, SMD 1210	Samsung	CL32B106KAULNNE	Taiyo Yuden	TMK325B7106KN-TR
2	56	C2, C5, C8, C15, C18, C20, C21, C22, C23, C24, C26, C28, C29, C31, C33, C34, C35, C37, C39, C41, C47, C48, C50, C51, C52, C53, C54, C56, C59, C62, C65, C68, C71, C74, C77, C80, C83, C86, C89, C92, C95, C98, C101, C104, C107, C110, C113, C116, C117, C118, C119, C120, C121, C123, C125, C127	Capacitor, Ceramic, 0.1uF 25V 10% X7R, SMD 0603	Samsung	CL10B104KA8NNNC	Murata	GRM188R71E104KA01D
3	6	C3, C4, C9, C10, C11, C12	Capacitor, Ceramic, 22uF 6.3V 10% X5R, SMD 1206	Samsung	CL31A226KQHNNNE	Taiyo Yuden	JMK316ABJ226KL-T
4	21	C19, C57, C60, C63, C66, C69, C72, C75, C78, C81, C84, C87, C90, C93, C96, C99, C102, C105, C108, C111, C114	Capacitor, Ceramic, 0.01uF 25V 5% NPO, SMD 0603	Samsung	CL10C103JA8NNNC	TDK	C1608C0G1E103J080AA
5	8	C25, C30, C32, C38, C40, C44, C46, C49	Capacitor, Ceramic, 10uF 6.3V 10% X5R, SMD 0805	Samsung	CL21A106KQQNNNE	Kemet	C0805C475K9PACTU
6	1	C27	Capacitor, Ceramic, 0.01uF 25V 10% X7R, SMD 0603	Samsung	CL10B103KA8NNNC	Murata	GRM188R71E103KA01D
7	2	C36, C43	Capacitor, Ceramic, 1.0uF 25V 10% X5R, SMD 0603	Samsung	CL10A105KA8NNNC	Murata	GRM188R61E105KA12D
8	2	C42, C45	Capacitor, Ceramic, 27pF 50V 5% NPO, SMD 0603	Samsung	CL10C270JB8NNNC	Murata	GRM1885C1H270JA01D
9	1	C55	Capacitor, Ceramic, 470pF 50V 5% NPO, SMD 0603	Samsung	CL10C471JB8NNNC	Murata	GRM1885C1H471JA01D
10	20	C58, C61, C64, C67, C70, C73, C76, C79, C82, C85, C88, C91, C94, C97, C100, C103, C106, C109, C112, C115	Capacitor, Ceramic, 1000pF 50V 5% NPO, SMD 0603	Samsung	CL10C102JB8NNNC	Murata	GRM1885C1H102JA01J
11	1	D1	Diode, Schottky, Dual Common Cathode, 35V 25A, D2PAK	ON Semiconductor	MBRB2535CTLG		
12	4	D2, D3, D4, D5	LED, Green 0603	Lumex	SML-LX0603SUGW-TR		
13	1	D6	Diode, Schottky, 40V 1A, SOD123	Diodes Inc	1N5819HW-7-F		
14	10	PC1, PB1, PA1, JC1, JB1, PB2, PA2, JB2, JA2, P3	Conn, Header, 40-pin, 20-posx2-row, 0.05" Vert Shrouded, TH	Samtec	TFM-120-01-F-D-A		
15	1	JP1	Conn, Header, 4pin, 2posx2row, 0.10" Vert TH	FCI	67996-204HLF	Sullins Connector Solutions	PRPC002DAAN-RC
16	1	J1	Conn, Jack, 2-pos, 5.5mm OD x 2.5mm ID DC Power, 8A T/H RA	CUI Inc	PJ-063BH		
17	1	J4	Conn, Header, 14-pos, 2MM VERT Gold SHRD	Molex Inc.	87831-1420		
18	1	J5	Conn, Header, 5-pos, 0.1" Vert, Gold Flash	Samtec	TSW-105-07-L-S	Sullins Connector Solutions	PRPC005SAAN-RC
19	1	J6	Conn, Magjack, 4-port 1000 Base-T	Bel Fuse	0826-1X4T-43-F		
20	1	J7	Connector, Receptacle, Combined MECT-110-01-M-D-RA1 20pin SPC/SPC+ SMD RA PCB	Samtec	SFPK-SL		
21	1	J8	Conn, Magjack, 1-port 1000 Base-T	Bel Fuse	0826-1X1T-43-F		
22	1	J9	Conn, Header, 8pin, 4posx2row, 0.10" Vert TH	Sullins	PRPC004DAAN-RC	FCI	67997-208HLF
23	3	L1, L2, L3	Inductor 2.2uH 20% 2milliohm 3.7A SMD 4mmx4mmx2mm	Coilcraft	XFL4020-222MEB		
24	2	L4, L5	Inductor, 1.0uH 20% 38milliohm 2.1A, Shielded, SMD 1210	Coilcraft	PFL3215-102MEC		
25	1	P2	Conn, Header, 30-pin, 15-posx2-row, 0.05" Vert Shrouded, TH	Samtec	TFM-115-01-F-D-A		
26	4	RP2, RP3, RP4, RP5	Resistor Pack, 22 ohm 1% x4 Individual, 1/16W per resistor, Convex, SMD 1206	Vishay	CRA06S08322R0FTA	Bourns	CAY16-22R0F4LF
27	1	RP6	Resistor Pack, 4.7K ohm 5% x4 Individual, 1/16W per resistor, Convex, SMD 1206	Yageo	YC164-JR-074K7L	Vishay Dale	CRA06S0834K70JTA
28	1	R1	Resistor, 1.13K ohm 1% 1/10W, SMD 0603	Samsung	RC1608F1131CS	Yageo	RC0603FR-071K13L
29	6	R2, R13, R14, R24, R25, R26	Resistor, 150 ohm 1% 1/10W, SMD 0603	Samsung	RC1608F151CS	Panasonic	ERJ-3EKF1500V
30	4	R3, R5, R15, R16	Resistor, 100K ohm 1% 1/10W, SMD 0603	Samsung	RC1608F104CS	Panasonic	ERJ-3EKF1003V
31	1	R4	Resistor, 51.0K ohm 0.1% 1/8W, SMD 0805	Panasonic	ERA-6AEB513V	Susumu	RG2012P-513-B-T5
32	2	R6, R12	Resistor, 12.0K ohm 0.1% 25ppm 1/10W, SMD 0603	Yageo	RT0603BRD0712KL	Panasonic	ERA-3AEB123V
33	2	R7, R10	Resistor, 10.0K ohm 0.1% 25ppm 1/10W, SMD 0603	Yageo	AT0603BRD0710KL	Panasonic	ERA-3AEB103V
34	1	R8	Resistor, 200K ohm 0.1% 1/8W, SMD 0805	Panasonic	ERA-6AEB204V	Susumu	RG2012P-204-B-T5
35	1	R9	Resistor, 24.9K ohm 0.1% 1/8W, SMD 0805	Yageo	RT0805BRD0729K4L	Panasonic	ERA-6AEB2942V
36	1	R11	Resistor, 75.0K ohm 0.1% 1/8W, SMD 0805	Yageo	RT0805BRD0775KL	Panasonic	ERA-6AEB2493V
37	9	R17, R19, R20, R22, R27, R28, R29, R30, R38	Resistor, 4.70K ohm 1% 1/10W, SMD 0603	Samsung	RC1608F472CS	Panasonic	ERJ-3EKF4701V
38	1	R18	Resistor, 49.9 ohm 1% 1/10W, SMD 0603	Samsung	RC1608F49R9CS	Yageo	RC0603FR-0749R9L
39	1	R21	Resistor, 4.99K ohm 1% 1/10W, SMD 0603	Yageo	RC0603FR-074K99L	Panasonic	ERJ-3EKF4991V
40	1	R23	Resistor, 1.00K ohm 1% 1/10W, SMD 0603	Samsung	RC1608F102CS	Panasonic	ERJ-3EKF1001V
41	1	R31	Resistor, 100 ohm 1% 1/10W, SMD 0603	Samsung	RC1608F101CS	Panasonic	ERJ-3EKF1000V
42	4	R32, R33, R35, R36	Resistor, 2.00K ohm 1% 1/10W, SMD 0603	Samsung	RC1608F202CS	Panasonic	ERJ-3EKF2201V
43	2	R34, R37	Resistor, Do Not Install, 1/10W, SMD 0603				
44	3	SH1, SH2, SH3	Conn, Jumper, 2pos Open Top, For 0.025" Square Pins 0.1" LS, Gold Flash	Sullins	QPC02SXXGN-RC	3M	969102-0000-DA
45	1	TVS1	TVS DIODE 3.3VMM SOD523	NXP Semiconductors	PESD3V3U1UB,115		
46	1	TVS2	Diode Array, Quint 3.3V ESD Prot., SOT363	NXP Semiconductors	PESD3V3L5UY,115		
47	1	U1	IC, Buck Regulator, Synchronous, 0.9V - 6V 1A, 16QFN 3x3mm	Texas Instruments	TPS62150RGTR	Texas Instruments	TPS62150RGTT
48	1	U2	IC, Quad Voltage Supervisor with Manual Reset Input, VSSOP-8	Texas Instruments	TPS386596L33DGKR		
49	1	U3	IC, Buck Regulator, Synchronous, 1.8V 1A, 16QFN 3x3mm	Texas Instruments	TPS62151RGTT	Texas Instruments	TPS62151RGTR
50	1	U4	IC, Buck Regulator, Synchronous, 3.3V 1A, 16QFN 3x3mm	Texas Instruments	TPS62152RGTR	Texas Instruments	TPS62151RGTR
51	2	U5, U7	IC, EEPROM, 256x8bit, I2C 400KHz, TSOT23-5	ON Semiconductor	CAT24AA02TDI-GT3		
52	1	U6	IC, Gigabit Ethernet Switch, 7 Port, QFP-128	Marvell	88E6352-A1-TFJ2C000		
53	1	X1	Crystal, 25.0000MHZ, 20ppm, 18pF, 50 Ohm, -40C - 85C, 3.2mm x 2.5mm DFN4 SMD	AVX Corp/Kyocera Corp	CX3225GB25000P0HPQCC	Abracon	ABM8G-25.000MHZ-18-D2Y-T