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Bill Of Materials      October 19,2015      18:55:06

Item	Qty	Reference	Description	Manufacturer	Part Number	Alternate Manufacturer	Alternate Part Number
1	5	C1, C8, C9, C10, C12	Capacitor, Ceramic, 10uF 25V 10% X7R, SMD 1210	Samsung	CL32B106KAULNNE	Taiyo Yuden	TMK325B7106KN-TR
2	48	C2, C11, C13, C15, C16, C17, C18, C19, C20, C21, C22, C24, C25, C26, C28, C29, C31, C35, C37, C38, C40, C44, C45, C46, C48, C49, C50, C52, C53, C54, C55, C58, C60, C62, C63, C66, C67, C68, C71, C74, C77, C83, C85, C89, C95, C97, C106, C113	Capacitor, Ceramic, 0.1uF 25V 10% X7R, SMD 0603	Samsung	CL10B104KA8NNNC	Murata	GRM188R71E104KA01D
3	4	C3, C4, C5, C6	Capacitor, Ceramic, 22uF 6.3V 10% X5R, SMD 1206	Samsung	CL31A226KQHNNNE	Taiyo Yuden	JMK316ABJ226KL-T
4	2	C7, C14	Capacitor, Ceramic, 3300pF 25V 10% X7R, SMD 0603	Murata	C0402C332K3RACTU	Kemet	C0603C332K3RACTU
5	11	C23, C27, C30, C32, C61, C84, C90, C93, C96, C107, C114	Capacitor, Ceramic, 10uF 6.3V 10% X5R, SMD 0805	Samsung	CL21A106KQQNNNE	Kemet	C0805C475K9PACTU
6	2	C33, C34	Capacitor, Ceramic, 33pF 50V 5% NPO, SMD 0603	Samsung	CL10C330JB8NNNC	Murata	GRM1885C1H330JA01D
7	3	C36, C39, C42	Capacitor, Ceramic, 33uF 6.3V 20% X5R, SMD 1210	TDK	C3225X5R0J336M250AA	Murata	GRM32DR60J336ME19L
8	18	C41, C43, C80, C81, C82, C87, C88, C94, C98, C100, C101, C102, C103, C104, C105, C110, C111, C112	Capacitor, Ceramic, 0.01uF 25V 10% X7R, SMD 0603	Samsung	CL10B103KA8NNNC	Murata	GRM188R71E103KA01D
9	3	C47, C51, C56	Capacitor, Ceramic, 1.0uF 25V 10% X5R, SMD 0603	Samsung	CL10A105KA8NNNC	Murata	GRM188R61E105KA12D
10	2	C57, C65	Capacitor, Ceramic, 4.7uF 6.3V 10% X5R, SMD 0805	Samsung	CL21A475KQFNNNE	Kemet	C0805C475K9PACTU
11	1	C59	Capacitor, Ceramic, 150uF 6.3V 20% X5R, SMD 1210	Samsung	CL32A157MQVNNNE	Taiyo Yuden	JMK325ABJ157MM-T
12	1	C64	Capacitor, Ceramic, 2.2uF 10V 10% X5R, SMD 0603	Samsung	CL10A225KP8NNNC	Yageo	CC0603KRX5R6BB225
13	4	C69, C72, C75, C78	Capacitor, Ceramic, 0.01uF 25V 5% NPO, SMD 0603	Samsung	CL10C103JA8NNNC	TDK	C1608C0G1E103J080AA
14	4	C70, C73, C76, C79	Capacitor, Ceramic, 1000pF 50V 5% NPO, SMD 0603	Samsung	CL10C102JB8NNNC	Murata	GRM1885C1H102JA01J
15	5	C86, C91, C92, C108, C115	Capacitor, Ceramic, 47uF 10V 10% X5R, SMD 1210	Samsung	CL32A476KPJNNNE	Murata	GRM32ER61A476KE20K
16	2	C99, C109	Capacitor, Ceramic, 27pF 50V 5% NPO, SMD 0603	Samsung	CL10C270JB8NNNC	Murata	GRM1885C1H270JA01D
17	1	D1	Diode, Schottky, Dual Common Cathode, 35V 25A, D2PAK	ON Semiconductor	MBRB2535CTLG		
18	3	D2, D3, D4	LED, Green 0603	Lumex	SML-LX0603SUGW-TR		
19	1	D5	Diode, Schottky, 30V 30mA, SOD323	ON Semiconductor	RB751V40T1G		
20	1	D6	Diode, Signal, 75V 150mA, SOD123	Vishay	1N4148WFL-G3-08	Diodes Inc	1N4148W-7-F
21	1	FB1	Ferrite Bead, 220 ohms 25% @ 100MHz, 0.6A max, SMD 0603	Laird	HZ0603A222R-10	Murata	BLM18AG221SN1D
22	5	FB2, FB3, FB4, FB5, FB6	Ferrite Bead, 120 ohms 25% @ 100MHz, 2A max, SMD 0603	Vishay Dale	ILHB0603ER121V	KOA Speer	CZP1JFTTD121P
23	7	PC1, PB1, PA1, JC1, PB2, PA2, P3	Conn, Header, 40-pin, 20-posx2- row, 0.05" Vert Shrouded, TH	Samtec	TFM-120-01-F-D-A		
24	1	J1	Conn, Jack, 2-pos, 5.5mm OD x 2.5mm ID DC Power, 8A T/H RA	CUI Inc	PJ-063BH		
25	1	J4	Conn, Header, 14-pos, 2MM VERT Gold SHRD	Molex Inc.	87831-1420		
26	2	J5, J6	Conn, Recept, HDMI 19-pos, TH, RA Horizontal	CNC Tech	2000-1-1-20-00-BK		
27	1	J7	Connector, Receptacle, USB Type A 2.0, 4 Position Through Hole, Right Angle, Horizontal	Amphenol	UE27AC5410H		
28	2	J9, J10	Header, 25 pos x 2 rows, 50 Pins, 0.1 Centers	Samtec	TSW-125-07-F-D		
29	1	J11	Conn, Header, 5-pos, 0.1" Vert, Gold Flash	Samtec	TSW-105-07-L-S	Sullins Connector Solutions	PRPC005SAAN-RC
30	2	L1, L2	Inductor 2.2uH 20% 21milliohm 3.7A SMD 4mmx4mmx2mm	Coilcraft	XFL4020-222MEB		

31	9	L3, L4, L5, L6, L7, L8, L9, L10, L11	Inductor, 10uH 20% 700mohm 470mA, Shielded, SMD 2mmx2mmx1.2mm	Abracon	ASPI-2012-100M-T	TDK	VLS2012ET-100M
32	1	P2	Conn, Header, 30-pin, 15-posx2-row, 0.05" Vert Shrouded, TH	Samtec	TFM-115-01-F-D-A		
33	1	P8	Conn, Magjack, 1-port 1000 Base-T	Abracon	ARJE-0027		
34	1	Q1	MOSFET, P-CH, 20V 5.5A, SOT-223	Fairchild Semiconductor	FDT434P		
35	8	RP2, RP3, RP4, RP5, RP6, RP7, RP8, RP9	Resistor Pack, 75 ohm 1% x4 Individual, 1/16W per resistor, Convex, SMD 1206	Vishay	CRA06S08375R0FTA		
36	1	RP10	Resistor Pack, 10K ohm 5% x4 Individual, 1/16W per resistor, Convex, SMD 1206	Yageo	YC164-JR-0710KL	Bourns Inc.	CAY16-103J4LF
37	1	R1	Resistor, 1.13K ohm 1% 1/10W, SMD 0603	Samsung	RC1608F1131CS	Yageo	RC0603FR-071K13L
38	7	R2, R3, R17, R27, R30, R34, R35	Resistor, 330 ohm 1% 1/10W, SMD 0603	Samsung	RC1608F331CS	Panasonic	ERJ-3EKF3300V
39	4	R4, R5, R6, R31	Resistor, 100K ohm 1% 1/10W, SMD 0603	Samsung	RC1608F104CS	Panasonic	ERJ-3EKF1003V
40	2	R7, R11	Resistor, 24.9K ohm 0.1% 1/8W, SMD 0805	Yageo	RT0805BRD0729K4L	Panasonic	ERA-6AEB2942V
41	3	R8, R10, R12	Resistor, 10.0K ohm 0.1% 25ppm 1/10W, SMD 0603	Yageo	AT0603BRD0710KL	Panasonic	ERA-3AEB103V
42	1	R9	Resistor, 100K ohm 0.1% 1/8W, SMD 0805	Yageo	RT0805BRD07100KL	Panasonic	ERA-6AEB104V
43	1	R13	Resistor, 49.9 ohm 1% 1/10W, SMD 0603	Samsung	RC1608F49R9CS	Yageo	RC0603FR-0749R9L
44	1	R14	Resistor, 27.0K ohm 1% 1/10W, SMD 0603	Samsung	RC1608F273CS	Panasonic	ERJ-3EKF2702V
45	4	R15,R16,R43,R44	Resistor, 2.00K ohm 1% 1/10W, SMD 0603	Samsung	RC1608F202CS	Panasonic	ERJ-3EKF2201V
46	2	R18, R21	Resistor, 100 ohm 1% 1/10W, SMD 0603	Samsung	RC1608F101CS	Panasonic	ERJ-3EKF1000V
47	1	R19	Resistor, 4.70K ohm 1% 1/10W, SMD 0603	Samsung	RC1608F472CS	Panasonic	ERJ-3EKF4701V
48	1	R20	Resistor, 887 ohm 1% 1/10W, SMD 0603	Samsung	RC1608F8870CS	Panasonic	ERJ-3EKF8870V
49	3	R22, R37, R39	Resistor, 10.0K ohm 1% 1/10W, SMD 0603	Samsung	RC1608F103CS	Panasonic	ERJ-3EKF1002V
50	7	R23, R32, R33, R36, R38, R40, R41	Resistor, 1.00K ohm 1% 1/10W, SMD 0603	Samsung	RC1608F102CS	Panasonic	ERJ-3EKF1001V
51	2	R24, R25	Resistor, 47.0K ohm 1% 1/10W, SMD 0603	Samsung	RC1608F473CS	Panasonic	ERJ-3EKF4702V
52	1	R26	Resistor, 390K ohm 1% 1/10W, SMD 0603	Samsung	RC1608F394CS	Yageo	RC0603FR-07390KL
53	1	R28	Resistor, 0ohms 1/10W, SMD 0603	Samsung	RC1608J000CS	Panasonic	ERJ-3GEY0R00V
54	1	R29	Resistor, 8.06K ohm 1% 1/10W, SMD 0603	Samsung	RC1608F8061CS	Panasonic	ERJ-3EKF8061V
55	1	R42	Resistor, 12.1K ohm 1% 1/10W, SMD 0603	Samsung	RC1608F1212CS	Panasonic	ERJ-3EKF1212V
56	1	R45	Resistor, Do Not Install, 1/10W, SMD 0603				
57	1	TVS1	TVS DIODE 3.3VWM SOD523	NXP Semiconductors	PESD3V3U1UB,115		
58	1	TVS2	Diode Array, Quint 3.3V ESD Prot., SOT363	NXP Semiconductor	PESD3V3L5UY,115		
59	1	U1	IC, Buck Regulator, Synchronous, 5.0V 1A, 16QFN 3x3mm	Texas Instruments	TPS62153RGTT	Texas Instruments	TPS62153RGTR
60	1	U2	IC, Buck Regulator, Synchronous, 1.8V 1A, 16QFN 3x3mm	Texas Instruments	TPS62151RGTT	Texas Instruments	TPS62151RGTR
61	1	U3	IC, Quad Voltage Supervisor with Manual Reset Input, VSSOP-8	Texas Instruments	TPS386596L33DGKR		
62	1	U4	IC, EEPROM, 256x8bit, I2C 400KHz, TSOT23-5	ON Semiconductor	CAT24AA02TDI-GT3		
63	2	U5, U7	TVS Diode Array, 13 Channel HDMI, 5.5VWM 15VC 1pF Cio 0.05pF diff Cio, 5V Load Switch, 16TSSOP	Texas Instruments	TPD13S523PWR		
64	1	U6	IC, Transmitter, HDMI 165MHZ, 64-LQFP	Analog Devices	ADV7513BSWZ		
65	1	U8	IC, Receiver, HDMI 165MHZ LP, 64LQFP	Analog Devices	ADV7611BSWZ-P		
66	1	U9	IC, USB PHY, Host/Dev/OTG, ULPI I/F, 24-QFN	Microchip Technology	USB3315C-CP-TR		

67	1	U10	IC, USB TVS and Current Limit Switch, SOT-23-6	Texas Instruments	TPD3S014DBVR		
68	1	U11	IC, Gigabit Ethernet Transceiver with RGMII support, QFN-48	Micrel	KSZ9031RNXCA		
69	1	U12	IC, Dual Non-Inverting Buffer/Driver, Open Drain Output, SOT23-6	Diodes Incorporated	74LVC2G07W6-7	Texas Instruments	SN74LVC2G07DBVR
70	1	X1	Crystal, 28.63636MHz, 20ppm, 18pF, 50 Ohm, -40C - 85C, 3.2mm x 2.5mm DFN4 SMD	Abracon	ABM8G-28.63636MHZ-18-D2Y-T		
71	1	X2	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
72	1	Y1	IC, Crystal Oscillator, 12.0MHz +/-25ppm, 3.2mm x 2.5mm SMD	Abracon	ASE-12.000MHZ-LR-T		
73	1	Y2	Oscillator, MEMS, 24.000MHz +/-50ppm, 1.8V-3.3V, SMD 3.2mmx2.5mm	Abracon LLC	ASEMB-24.000MHZ-LC-T		