

THERE IS NO WARRANTY FOR THE DESIGN MATERIALS, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE DESIGN MATERIALS "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE DESIGN MATERIALS IS WITH YOU. SHOULD THE DESIGN MATERIALS PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

Designator	Value	Comment	Footprint	Description	Quantity	Manufacturer
BTN6, BTN7		SW-P8008 with RED CAP	SW-P8008	Push Button Switch, SPST, Thru Hole	2	
BTN8, BTN9, BTNC, BTND, BTNL, BTNR, BTNU		SW-P8008	SW-P8008	Push Button Switch, SPST, Thru Hole	7	
C1, C2, C4, C5, C7, C19, C21, C36, C37, C38, C43, C51, C52, C53, C57, C59, C61, C62, C63, C65, C66, C68, C69, C70, C71, C72, C79, C80, C81, C84, C85, C86, C90, C91, C93, C94, C95, C96, C98, C106, C252, C253, C254, C257, C260, C264, C266, C267, C270, C271, C272, C273, C363, C374, C375	0.1uF	CAPACITOR	CAP0402	Generic Capacitor	55	
C108, C109, C110, C111, C112, C113, C114, C122, C123, C124, C125, C126, C142, C143, C144, C145, C146, C155, C156, C161, C162, C167, C168, C169, C170, C171, C181, C182, C183, C189, C190, C191, C192, C193, C234, C235, C236, C241, C242, C243, C278, C279, C280, C281, C282, C283, C284, C285, C286, C287, C288, C289, C290, C291, C292, C293, C294, C295, C296, C297, C298, C299, C300, C301, C302, C303, C304, C305, C306, C307, C308, C309	47nF	CAPACITOR	CAP0402	Generic Capacitor	72	
C12, C318, C319, C320, C321, C322, C323, C331, C332, C343, C348, C349, C360, C384	100nF	CAPACITOR	CAP0402	Generic Capacitor	14	
C127, C137, C138, C147, C154, C160, C172, C180, C194, C233, C244, C310, C311, C313, C314	470nF	CAPACITOR	CAP0402	Generic Capacitor	15	
C131, C132, C133, C151, C152, C158, C176, C177, C198, C230, C247, C248, C379	100uF	CAPACITOR	CAP1210	Generic Capacitor	13	
C15, C16, C23, C24	100nF	No Load	CAP0402	Generic Capacitor	4	
C199, C200, C201, C202, C203, C209, C210, C211, C212, C213, C214, C215	47nF	Murata GRM Series	CAP0402	Generic Capacitor	12	
C204, C205, C206, C207, C208	10nF	Murata GRM Series	CAP0402	Generic Capacitor	5	
C216, C227, C228, C229	100uF	Murata GRM Series	CAP1210	Generic Capacitor	4	
C217, C218, C219, C222, C223, C224, C225, C226	4.7uF	Murata GRM Series	CAP0603	Generic Capacitor	8	
C220	470nF	Murata GRM Series	CAP0402	Generic Capacitor	1	
C221	0.47uF	Murata GRM Series	CAP0402	Generic Capacitor	1	
C25, C26, C27, C28, C39, C44, C54, C73, C74, C75, C78, C255, C258, C261, C265, C324, C325, C377, C386, C397	1uF	CAPACITOR	CAP0402	Generic Capacitor	20	
C29, C31, C32, C33, C34, C35, C41, C42, C46, C47, C48, C49, C50, C56, C97, C101, C103, C104, C105, C107, C115, C116, C117, C118, C119, C120, C121, C139, C140, C141, C157, C163, C164, C165, C166, C184, C185, C186, C187, C188, C237, C238, C239, C240, C249, C250, C256, C259, C262, C263, C268, C269, C274, C275, C276, C277, C316, C317	10nF	CAPACITOR	CAP0402	Generic Capacitor	58	
C3, C6	220uF	No Load	CPOL3528	Generic Polarized Capacitor	2	
C30	NL	CAPACITOR	CAP0603	Generic Capacitor	1	
C328, C345	100uF	CPOL	CAP1210	Generic Polarized Capacitor	2	
C329, C330, C346, C347	22uF	CAPACITOR	CAP0805	Generic Capacitor	4	
C333, C338, C350, C355	750pF	CAPACITOR	CAP0402	Generic Capacitor	4	
C334, C335, C339, C340, C351, C352, C356, C357	47uF	CAPACITOR	CAP1210	Generic Capacitor	8	
C336, C341, C353, C358	470pF	CAPACITOR	CAP0402	Generic Capacitor	4	
C337, C342, C354, C359	10pF	CAPACITOR	CAP0402	Generic Capacitor	4	
C344, C361	0	No Load	CAP0402	Generic Capacitor	2	
C362, C365, C366	22uF	CPOL	CAP1210	Generic Polarized Capacitor	3	
C364	100pF	CAPACITOR	CAP0402	Generic Capacitor	1	
C368	220nF	15%, 10V	CAP0402	Generic Capacitor	1	
C370	22nF	CAPACITOR	CAP0402	Generic Capacitor	1	
C371	No Load	CAPACITOR	CAP0402	Generic Capacitor	1	
C373	3.3nF	CAPACITOR	CAP0402	Generic Capacitor	1	
C380, C381	1uF	CAPACITOR	CAP0805	Generic Capacitor	2	
C383	0.33uF	CAPACITOR	CAP0402	Generic Capacitor	1	
C385	1nF/250V	CAPACITOR	CAP0805	Generic Capacitor	1	
C387, C388, C389, C390	22uF	25V	CAP1210	Generic Capacitor	4	
C391, C392, C393, C394	47uF	GRM32ER71A476KE15	CAP1210	Generic Capacitor	4	Murata
C395, C398	0.22uF	CAPACITOR	CAP0402	Generic Capacitor	2	
C396	0.1uF	25V	CAP0402	Generic Capacitor	1	
C399	20nF	CAPACITOR	CAP0402	Generic Capacitor	1	
C40, C45, C55, C58, C251	10uF	CAPACITOR	CAP0603	Generic Capacitor	5	
C400	330pF	CAPACITOR	CAP0402	Generic Capacitor	1	
C401	15pF	CAPACITOR	CAP0402	Generic Capacitor	1	
C402	150pF	CAPACITOR	CAP0402	Generic Capacitor	1	
C403	15nF	CAPACITOR	CAP0402	Generic Capacitor	1	
C64, C67, C128, C129, C130, C134, C135, C136, C148, C149, C150, C153, C159, C173, C174, C175, C178, C179, C195, C196, C197, C231, C232, C245, C246, C312, C315	4.7uF	CAPACITOR	CAP0603	Generic Capacitor	27	
C76, C77	39pF	5%	CAP0402	Generic Capacitor	2	
C8, C10, C11, C13, C14, C17, C18, C20, C22, C60, C376, C378	10uF	CAPACITOR	CAP0805	Generic Capacitor	12	

C82, C83	2.2uF	CAPACITOR	CAP0603	Generic Capacitor	2	
C87, C92, C326, C327	2.2uF	CAPACITOR	CAP0402	Generic Capacitor	4	
C88	4.7uF	10V	CAP0603	Generic Capacitor	1	
C89	120uF	10V	CAP1210	Generic Polarized Capacitor	1	
C9	9.1pF	CAPACITOR	CAP0402	Generic Capacitor	1	
C99, C100, C102, C367, C369, C372, C382	1nF	CAPACITOR	CAP0402	Generic Capacitor	7	
D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D12, D13, D14, D17, D19, D20, D21		SESD0802Q4UG-0020-090	SESD0802Q4UG	Quad Diode Array for ESD protection	17	TE Connectivity
D11		BAS16XV2T1-D	SOD-523	Surface Mount ESD Protection Diode	1	On Semiconductor
D15		PESD0402-140	D0603	Surface Mount ESD Protection Diode	1	TE Connectivity
D16, D18, D22, D23, D24, D25		RB751S40	SOD-523	Schotkey Diode NOT GENERIC	6	
D26		BZX34-A3V0	SOT23	Dual Common Cathode Surface Mount Rectifier	1	Vishay
DISP1		UG-2832HSWEG04	UG-2832HSWEG04	OLED, 128x32 monochrome, Passive Matrix Module	1	Wisechip
F1, F2, F3, F4		Foot	Foot#6	Mechanical Foot for #6 Screw or Rubber Pad	4	
F5	5A	0603SFF500F/32-2	RES0603	Generic Resistor	1	
FB1, FB2, FB3, FB4, FB5, FB8, FB9, FB11, FB12, FB13, FB14	600	MPZ2012S601A	FB0805	Generic Ferrite Bead	11	
FB10	No Load	MPZ2012S601A	FB0805	Generic Ferrite Bead	1	
FB6, FB7	220	SMB-201209-F2-221P	FB0805	Generic Ferrite Bead	2	
IC1		74LCX125BQX	DQFN14	Low Voltage Quad Tri-State Buffer with 5V Tolerant I/O	1	Fairchild
IC10		TUSB1210BRHB	QFN32 - C	ULPI Hi-Speed USB OTG transceiver	1	Texas Instruments
IC11		CY7C64225-28PVXC	SSOP28	Full-Speed USB to UART Controller	1	Cypress
IC12	26MHz	767-26-31	HC5	3.3V HCMOS Oscillator	1	Fox Electronics
IC13		TXS0102DQE	DQE8	2-Bit Bidirectional Voltage-Level Translator	1	Texas Instruments
IC14	No Load	S25FL256SAGNFI00	MLP8	Serial Flash Memory, 16Mbit, Low Voltage, 50MHz SPI Bus Interface	1	Spansion
IC15		S25FL256SAGMFI00	SOIC16-WIDE	Serial Flash Memory, 16Mbit, Low Voltage, 50MHz SPI Bus Interface	1	Spansion
IC16		XC7Z020CLG484	CSG484	Zynq 7000 FPGA 20 Die, in a CSG 484 Package	1	Xilinx
IC17	100MHz	767-100-136	HC5	3.3V HCMOS Oscillator	1	Fox Electronics
IC18	33.33MHz	767-33.333333-12	HC5	3.3V HCMOS Oscillator	1	Fox Electronics
IC19		74LCX126BQX	DQFN14	Low voltage Quad Tri-State Buffer with 5V tolerant I/O	1	Fairchild
IC2		ADG719BRTZ	SOT23-6	2:1 Mux/SPDT Switch	1	Analog Devices
IC20		NC7WZ07P6X	SOT-363	TinyLogic UHS Dual Buffer	1	Fairchild
IC21		NC7SZ125M5X	SOT23-5	TinyLogic UHS Buffer with Tri-State Output	1	Fairchild
IC22	12MHz	767-12-69	HC5	3.3V HCMOS Oscillator	1	Fox Electronics
IC23		SMT1	SMT1	USB to JTAG circuit	1	Digilent
IC24		93LC56BT	SOT23-6	2K Microwire Compatible Serial EEPROM	1	Microchip
IC25, IC26		MT41J128M16HA-15E:D	FBGA96	DDR3 SDRAM 4Gb x4, x8, x16	2	Micron
IC27, IC28		MAX15021ATI+	QFN28-5X5	Dual, 4A/2A, 4MHz, Step-Down DC-DC Regulator with Tracking/Sequencing Capability	2	Maxim
IC29		LM339M	SOIC14N	Quad Low Power, Precision Comparator	1	Texas Instruments
IC3		ADAU1761BCPZ	QFN32	SigmaDSP Stereo, Low Power, 96kHz, 24-Bit Audio Codec with Integrated PLL	1	Analog Devices
IC30		MAX15053EWL+	WLP9	High-Efficiency, 2A, Current-Mode Synchronous, Step-Down Switching Regulator	1	Maxim
IC31		MAX1983EUT+	SOT23-6	Low-Voltage, Low-Dropout Linear Regulators with External Bias Supply	1	Maxim
IC32		MAX6037AAUK12+T	SOT23-5L	Low-Power, Fixed and Adjustable Reference with Shutdown	1	Maxim
IC33		MAX1510ETB	DFN10	Low-Voltage, DDR Linear Regulators	1	Maxim
IC34		MAX8686ETL+	TQFN40	Single/Multiphase, Step-Down DC-DC Converter Delivers Up to 25A Per Phase	1	Maxim
IC4		ADP150ACBZ-3.3	WLCSP4	Ultralow Noise, 150mA CMOS Linear Regulator	1	Analog Devices
IC5	12MHz	767-12-68	HC5	3.3V HCMOS Oscillator	1	Fox Electronics
IC6	225MHz	ADV7511KSTZ	LQFP100	Low-Power HDMI Transmitter with Audio Return Channel	1	Analog Devices
IC7		88E1518-XX-NNB2C000	QFN48	High Integrated 10/100/1000 Ultra Gigabit Ethernet Transceiver	1	Marvell
IC8		TXS02612RTWR	QFN24	SDIO Port Expander with Voltage-Level Translation	1	Texas Instruments
IC9		TPS2051BDBV	DBV-5	Current-Limited, Power-Distribution Switch	1	Texas Instruments
J1		ASP-134603-01	ASP-134603-01	FMC SEARAY mezzanine connector, 160 pins	1	Samtec
J10		1-1734530-3	TE1734530	DB15F-HD 15 Pin Edge Connector	1	TE Connectivity
J11		1840808-7	TE1840808	Single Port 10/100/1000Base-TX RJ-45 Connector with Magnetics	1	TE Connectivity
J12		2041021-1	TE2041021	DM1 Series SD Memory Card Connector	1	TE Connectivity
J13, J14, J17		1981584-1	TE 1981584	USB Micro AB connector	3	TE Connectivity

J15		HDR-2x7-2mm	HDR-2X7 -2mm	Header 2mm 2x7	1	
J16, J19		No Load	HDR-1x2	Header 100mil 1x2	2	
J18		Special, load HDR-2x2	HDR-2x3	Header 100mil 2x3	1	
J2		TST-110-01-G-D	TST-110-01-G-D	Header 100mil 2x10 MTE	1	Samtec
J20		163-054, 2.5x5.5mm, RA	KLD-0202s	Coax power Connector	1	Kingfont Precision Ind.
J21		HDR-1x2	HDR-1x2	Header 100mil 1x2	1	
J3, J4		TP	HDR-1X1	Header 100mil 1x1	2	
J5		BLACK	ST-3000	ST-3000 Series 3.5mm Audio Jack	1	Kycon
J6		GREEN	ST-3000	ST-3000 Series 3.5mm Audio Jack	1	Kycon
J7		PINK	ST-3000	ST-3000 Series 3.5mm Audio Jack	1	Kycon
J8		BLUE	ST-3000	ST-3000 Series 3.5mm Audio Jack	1	Kycon
J9		5-1903015-1	HDMI_1903015	HDMI 1903015, 19 Pin Edge Connector with Shield, (Molex)	1	TE Connectivity
JA1, JB1, JC1, JD1, JE1		PMOD-2x6-S	PMOD-2x6	Pmod System Board Header 2x6, 100mil spaced	5	
JP1, JP2, JP3, JP6, JP12, JP13		JMP-1x2	JPR-1x2	Jumper 100mil 1x2	6	
JP4, JP5		No Load	JPR-1x2	Jumper 100mil 1x2	2	
JP7, JP8, JP9, JP10, JP11		JMP-1x3	JPR-1x3	Jumper 100mil 1x3	5	
L1	1.2nH	CLH1608T-1N2S-S	IND0603	Generic Inductor	1	Taiyo Yuden
L2, L4	1uH/6A	SNR6045-1R0N	CDRH6D38	Generic Inductor	2	
L3, L5	1uH/3.6A	NRS5020T1R0NMGJ	SD5012D	Generic Inductor	2	
L6	1uH/6A	SRN6045-1R0Y	CDRH6D38	Generic Inductor	1	
L7	1.5uH	744314150	CR43	Generic Inductor	1	Würth Electronics
LD0, LD1, LD2, LD3, LD4, LD5, LD6, LD7	RED	LED	D0603	Generic LED	8	
LD10, LD11	YLW	LED	D0603	Generic LED	2	
LD12	BLUE	LED	D0603	Generic LED	1	
LD13	GREEN	LED	D0603	Generic LED	1	
LD9	GRN	LED	D0603	Generic LED	1	
LG1		Zed Board Logo	LOGO_ZED_1.5	Zed Board Logo at 1" wide	1	
LG2		Logo_Digilent-BT	Logo_Digilent-BT_1.0	Digilent Logo	1	
LG3		Logo_ROHS	LOGO_ROHS	ROHS (WEEE) Symbol	1	
LG4		Logo_Chinese ROHS	LOGO_CHINESE ROHS	Chinese ROHS Symbol	1	
LG5		Logo_Avnet	Logo_Avnet_1.0	Avnet Logo	1	
LG6		Logo_CE	Logo_CE	CE logo	1	
Q1		MBT3904DW1T1	SOT-363	Dual general Purpose Transistors	1	ON Semiconductor
Q2, Q3		NTS2101P	SOT-323 (SC-70)	Single P-Channel Power Mosfet 1.4A, 8V	2	ON Semiconductor
Q4		FDV301N	SOT23	Single Digital FET, N-Channel	1	Fairchild
R1, R38, R43, R47, R48, R56, R57, R58, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R82, R83, R84, R85, R98, R99, R107, R132, R134, R136, R160, R165, R176, R198, R199, R200, R201, R203, R205, R206, R207, R262, R287	10K	RESISTOR	RES0402	Generic Resistor	46	
R100, R101, R177, R178, R179, R180, R182, R183, R184, R264	20K	RESISTOR	RES0402	Generic Resistor	10	
R102	27K	RESISTOR	RES0402	Generic Resistor	1	
R103, R104	50	1%	RES0402	Generic Resistor	2	
R105, R106	1.74K	RESISTOR	RES0402	Generic Resistor	2	
R110, R114, R121	4K	RESISTOR	RES0402	Generic Resistor	3	
R113, R120, R124	510	RESISTOR	RES0402	Generic Resistor	3	
R116	2.43K	1%	RES0402	Generic Resistor	1	
R125	887	1%	RES0402	Generic Resistor	1	
R129, R130	55	RESISTOR	RES0402	Generic Resistor	2	
R131, R141, R142, R143, R189, R190, R196, R197, R260, R261	100K	RESISTOR	RES0402	Generic Resistor	10	
R133	4.99K	1%	RES0402	Generic Resistor	1	
R137	390K	RESISTOR	RES0402	Generic Resistor	1	
R138, R140, R173	499	RESISTOR	RES0402	Generic Resistor	3	
R146, R278	0	RESISTOR	RES0805	Generic Resistor	2	
R148, R149	24	1%	RES0402	Generic Resistor	2	
R157	330	RESISTOR	RES0402	Generic Resistor	1	
R159	270	RESISTOR	RES0402	Generic Resistor	1	
R170, R181	24	RESISTOR	RES0402	Generic Resistor	2	
R171, R172	10K	1%	RES0402	Generic Resistor	2	
R174, R175, R236	80	1%	RES0402	Generic Resistor	3	
R191, R192, R195, R202	4.99K	RESISTOR	RES0402	Generic Resistor	4	
R193	470	RESISTOR	RES0402	Generic Resistor	1	
R2, R3, R117, R118, R128, R135, R139, R158, R161, R211, R212	4.7K	RESISTOR	RES0402	Generic Resistor	11	
R204	12K	RESISTOR	RES0402	Generic Resistor	1	
R209, R210	240	1%	RES0402	Generic Resistor	2	

R213, R214, R215, R216, R217, R218, R219, R220, R221, R222, R223, R224, R225, R226, R227, R228, R229, R230, R231, R232, R233, R234, R235	40	1%	RES0402	Generic Resistor	23	
R237, R241, R249, R253, R279, R280	10K	0.1%	RES0402	Generic Resistor	6	
R238, R242, R250, R254	150	RESISTOR	RES0402	Generic Resistor	4	
R239, R243, R251, R255	18K	1%	RES0402	Generic Resistor	4	
R240	2.2K	0.1%	RES0402	Generic Resistor	1	
R244, R257	16K	RESISTOR	RES0402	Generic Resistor	2	
R245	5K	0.1%	RES0402	Generic Resistor	1	
R246	8.56K	0.1%	RES0402	Generic Resistor	1	
R247	4K	0.1%	RES0402	Generic Resistor	1	
R252	6.7K	0.1%	RES0402	Generic Resistor	1	
R256	15K	0.1%	RES0402	Generic Resistor	1	
R258, R272	100K	1%	RES0402	Generic Resistor	2	
R259	37.5K	1%	RES0402	Generic Resistor	1	
R263	33K	1%	RES0402	Generic Resistor	1	
R265, R286	15K	1%	RES0402	Generic Resistor	2	
R266	1	0.25W/1%	RES0805	Generic Resistor	1	
R267	8.06K	0.1%	RES0402	Generic Resistor	1	
R269	9.7K	1%	RES0402	Generic Resistor	1	
R270	4.02K	0.1%	RES0402	Generic Resistor	1	
R271	2.32K	1%	RES0402	Generic Resistor	1	
R273	21.5K	1%	RES0402	Generic Resistor	1	
R274	400	RESISTOR	RES0402	Generic Resistor	1	
R275	49.9K	0.1%	RES0402	Generic Resistor	1	
R276	40K	0.1%	RES0402	Generic Resistor	1	
R281	1M	RESISTOR	RES0805	Generic Resistor	1	
R283	4.32K	RESISTOR	RES0402	Generic Resistor	1	
R284	7.68K	1%	RES0402	Generic Resistor	1	
R285, R289	10	RESISTOR	RES0402	Generic Resistor	2	
R288	182K	RESISTOR	RES0402	Generic Resistor	1	
R290	4.5K	RESISTOR	RES0402	Generic Resistor	1	
R291	275K	RESISTOR	RES0402	Generic Resistor	1	
R292	10m/1W	RCWE120610L0JNEA	RES1206C	Current Sense Resistor	1	
R4, R5, R8, R9, R12, R13, R16, R17, R20, R21, R24, R25, R28, R29, R32, R33, R36, R37, R39, R40, R41, R42, R45, R46	200	RESISTOR	RES0402	Generic Resistor	24	
R44, R49, R50, R51, R52, R53, R54, R55, R59, R151, R152, R248, R282	390	RESISTOR	RES0402	Generic Resistor	13	
R6, R7, R10, R11, R14, R15, R18, R19, R22, R23, R26, R27, R30, R31, R34, R35, R75, R76, R78, R91, R92, R144, R186, R187, R188	0	RESISTOR	RES0402	Generic Resistor	25	
R77, R147, R194, R277	0	No Load	RES0805	Generic Resistor	4	
R79, R108, R145, R185	0	No Load	RES0402	Generic Resistor	4	
R80, R81, R126, R127, R153, R154, R155, R162, R163, R166, R167, R168, R169	100	RESISTOR	RES0402	Generic Resistor	13	
R86, R88, R89, R90, R111, R115, R122, R208	2K	RESISTOR	RES0402	Generic Resistor	8	
R87	25K	RESISTOR	RES0402	Generic Resistor	1	
R93, R109, R156	50	RESISTOR	RES0402	Generic Resistor	3	
R94, R95	49.9K	RESISTOR	RES0402	Generic Resistor	2	
R96, R97, R112, R119, R123, R150, R164, R268	1K	RESISTOR	RES0402	Generic Resistor	8	
SW0, SW1, SW2, SW3, SW4, SW5, SW6, SW7		SWITCH	SW-10SP001	SPDT, Thru Hole, Slide Switch	8	
SW8		SWITCH	MS12ANW03	SPDT, Thru Hole, Slide Switch	1	
X1	25MHz	738B-25-93	FQ5	12 - 40MHz 20pF Crystal Oscillator	1	Fox Electronics