

# Bill of Materials

Project: MiniZed Zynq Development Board  
 Project Name: PRJ-MI1DEV  
 Revision: 1  
 BOM: 01  
 Variant: 03



Report Date: 5/23/2017 4:13:25 PM

#	Quantity	Designator	Description	Manufacturer 1	Manufacturer Part Number 1	Fitted	Notes
1	4	BMPR1, BMPR2, BMPR3, BMPR4	BUMPER CYLINDRICAL 0.25" DIA CLR	3M	SJ5382	Fitted	
2	67	C1, C5, C7, C9, C11, C12, C13, C18, C19, C20, C25, C26, C27, C28, C29, C30, C31, C32, C41, C42, C43, C44, C47, C48, C49, C50, C51, C52, C53, C54, C64, C67, C69, C70, C75, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C102, C107, C108, C109, C110, C112, C117, C121, C140, C142, C151, C156, C171, C172, C173, C174, C175, C177	CAP CER 0.1UF 25V 10% X5R 0201	Taiyo Yuden	TMK063C6104KP-F	Fitted	
3	6	C2, C14, C56, C134, C145, C153	CAP CER 100UF 2.5V 20% X5R 0805	Murata	GRM21BR60G107ME15L	Fitted	
4	20	C3, C15, C33, C34, C35, C36, C57, C66, C68, C74, C76, C92, C93, C98, C99, C104, C135, C146, C154, C163	CAP CER 4.7UF 10V 10% X5R 0402	TDK Corporation	C1005X5R1A475K050BC	Fitted	
5	26	C4, C16, C37, C38, C39, C40, C58, C59, C60, C61, C63, C94, C95, C96, C97, C100, C101, C136, C137, C138, C143, C147, C148, C155, C161, C164	CAP CER 0.47UF 10V 20% X5R 0201	TDK Corporation	C0603X5R1A474M030BC	Fitted	
6	10	C6, C8, C10, C17, C111, C114, C115, C141, C144, C152	CAP CER 2.2UF 25V 20% X5R 0402	Murata	GRM155R61E225ME15D	Fitted	
7	1	C21	CAP ALUM 120UF 6.3V 20% 2917	Panasonic Electronic Components	EEF-CX0J121R	Fitted	
8	1	C22	CAP CER 1UF 16V 20% X5R 0201	Samsung Electro-Mechanics America, Inc	CL03A105M03NRNH	Fitted	
9	3	C23, C45, C55	CAP CER 10000PF 10V 10% X5R 0201	AVX Corporation	0201ZD103KAT2A	Fitted	
10	7	C24, C46, C116, C118, C123, C127, C131	CAP CER 22UF 10V 20% X5R 0603	TDK Corporation	C1608X5R1A226M080AC	Fitted	
11	11	C62, C91, C120, C122, C125, C126, C129, C130, C133, C139, C162	CAP CER 47UF 6.3V 20% X5R 0805	KEMET	C0805C476M9PACTU	Fitted	
12	4	C65, C106, C113, C160	CAP CER 10UF 10V 20% X5R 0402	Samsung Electro-Mechanics America, Inc	CL05A106MP5NUNC	Fitted	
13	2	C71, C72	CAP CER 18PF 50V 5% NPO 0603	AVX Corporation	06035A180JAT2A	Fitted	
14	2	C103, C105	CAP CER 4.7UF 6.3V 10% X5R 0603	AVX Corporation	06036D475KAT2A	Fitted	
15	2	C149, C150	CAP CER 15PF 50V 5% NPO 0402	AVX Corporation	04025A150JAT2A	Fitted	
16	2	D1, D6	TVS DIODE 20VWM SMD	Bourns	CDSOT23-SR208	Fitted	
17	2	D2, D8	LED TOPLED 633/570 RED/GRN 4PLCC	OSRAM Opto Semiconductors Inc.	LSG T676-P7R-1-0+N7P9-24-	Fitted	
18	2	D3, D9	LED CHIPLED BLUE 470NM 0603 SMD	OSRAM Opto Semiconductors Inc.	LB Q39G-L200-35-1	Fitted	
19	1	D4	DIODE SML SIG 250V 0.2A SOT23-3	NXP Semiconductors	BAS21_215	Fitted	
20	3	D7, D11, D13	DIODE SCHOTTKY 20V 5A SMA	Rohm Semiconductor	RSX501L-20TE25	Fitted	
21	2	D10, D14	LED YELLOW 587NM 0603 SMD	OSRAM Opto Semiconductors Inc	LY L29K-H1K2-26-Z	Fitted	
22	1	D12	LED SMARTLED 570NM GREEN 0603	OSRAM Opto Semiconductors Inc	LG L29K-F2J1-24-Z	Fitted	

23	1	ESD1	ESD Bag	3M	=ESDBagPN	Fitted	-
24	2	FB1, FB2	FERRITE BEAD 220 OHM 1.0A 0402	Taiyo Yuden	BKP1005EM221-T	Fitted	
25	2	FB3, FB4	FERRITE BEAD 600 OHM 0.3A 0402	Murata	BLM15AG601SN1D	Fitted	
26	2	FB5, FB6	FERRITE BEAD 120 OHM 2.0A 0603	Murata	BLM18PG121SN1D	Fitted	
27	1	J1	CONN RCPT USB A R/A, HORIZONTAL	TE CONNECTIVITY / AMP	292303-5	Fitted	
28	2	J2, J6	CONN RCPT MICRO USB AB R/A SMD	Molex Inc	0475890001	Fitted	
29	2	J4, J5	Header TH 100mil 6X2 Right Angle PMOD Horizontal	SAMTEC	SSW-106-02-T-D-RA	Fitted	
30	1	JT1	RES 0.0 OHM 1/16W JUMP 0402 SMD-3 PAD JUMPER (1-2)	VISHAY DRALORIC	CRCW04020000Z0ED	Fitted	Position 1-2
31	2	JX1, JX4	CONN RCPT .100" 8POS STR, SINGLE ROW	Samtec Inc	SSQ-108-01-G-S	Fitted	
32	1	JX2	CONN RCPT .100" 6POS STR, SINGLE ROW	Samtec Inc	SSQ-106-01-G-S	Fitted	
33	1	JX3	CONN RCPT .100" 10POS STR, SINGLE ROW	Samtec Inc	SSQ-110-01-G-S	Fitted	
34	3	L1, L2, L3	FIXED IND 1uH 3.1A 56 mOHM	TDK Corporation	TFM201610ALM-1R0MTAA	Fitted	
35	1	L4	FIXED IND 240NH 3.08A 40 mOHM	TDK Corporation	VLS201610CX-R24M	Fitted	
36	1	L5	FIXED IND 2.2UH 750mA 375 mOHM	Murata	LQM18PN2R2MFRL	Fitted	
37	1	L6	FIXED IND 2.4NH 850MA 50 mOHM	Murata	LQW15AN2N4B00D	Fitted	
38	1	Label1	Label, Product	AES	PBA-MI1DEV-1-01-03	Fitted	-
39	1	Label2	Label, Serial Number	AES	TBD	Fitted	-
40	1	Label_ESD1	Label, ESD	AES	TBD	Fitted	-
41	1	PCB1	BARE PCB Part Number	AES	PCB-MI1DEV-1	Fitted	
42	5	Q1, Q2, Q3, Q6, Q7	TRANS NPN 40V 0.2A SOT-23	ON Semiconductor	MMBT3904LT3G	Fitted	
43	4	Q4, Q5, Q8, Q9	MOSFET N-CH 50V 200MA SOT23-3	Infineon Technologies	BSS138NH632XTSA2	Fitted	
44	7	R1, R4, R7, R8, R9, R10, R11	RES 20.5K OHM 0402 1% 1/16W	Vishay Dale	CRCW040220K5FKED	Fitted	
45	2	R2, R57	RES 301 OHM 0402 1% 1/16W	Vishay Dale	CRCW0402301RFKED	Fitted	
46	22	R5, R22, R24, R75, R76, R78, R80, R85, R94, R97, R113, R129, R130, R132, R135, R136, R146, R147, R148, R149, R150, R151	RES 1.00K OHM 0402 1% 1/16W	Vishay Dale	CRCW04021K00FKED	Fitted	
47	8	R6, R64, R65, R66, R67, R77, R134, R152	RES 22.1 OHM 0402 1% 1/16W	Vishay Dale	CRCW040222R1FKED	Fitted	
48	22	R12, R13, R14, R15, R16, R19, R70, R71, R72, R89, R90, R91, R92, R93, R103, R104, R110, R111, R115, R116, R119, R133	RES 10.0K OHM 0402 1% 1/16W	Vishay Dale	CRCW040210K0FKED	Fitted	
49	27	R18, R21, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R87	RES 40.2 OHM 0402 1% 1/16W	Vishay Dale	CRCW040240R2FKED	Fitted	
50	5	R20, R106, R112, R117, R118	RES 0.0 OHM JUMP 0402 1/16W	Vishay Dale	CRCW04020000Z0ED	Fitted	
51	1	R23	RES 8.06K OHM 0402 1% 1/16W	Vishay Dale	CRCW04028K06FKED	Fitted	
52	2	R25, R86	RES 3.00K OHM 0402 1% 1/16W	Vishay Dale	CRCW04023K00FKED	Fitted	
53	4	R50, R55, R88, R101	RES 240 OHM 0402 1% 1/16W	Vishay Dale	CRCW0402240RFKED	Fitted	
54	5	R51, R53, R54, R153, R155	RES 80.6 OHM 0402 1% 1/16W	Vishay / Dale	CRCW040280R6FKED	Fitted	
55	14	R52, R56, R58, R59, R60, R61, R62, R63, R95, R96, R98, R99, R126, R131	RES 4.75K OHM 0402 1% 1/16W	Vishay Dale	CRCW04024K75FKED	Fitted	
56	1	R69	RES 12.0K OHM 0402 1% 1/16W	Vishay Dale	CRCW040212K0FKED	Fitted	
57	1	R73	RES 2.00K OHM 0402 1% 1/16W	Vishay Dale	CRCW04022K00FKED	Fitted	
58	3	R81, R83, R84	RES 0.0 OHM JUMP 0603 1/10W	Vishay / Dale	CRCW06030000Z0EA	Fitted	
59	1	R102	RES 200K OHM 0402 1% 1/16W	Vishay Dale	CRCW0402200KFKED	Fitted	
60	3	R139, R140, R141	RES 0.0 OHM JUMP 0402 1/16W RF FOOTPRINT	Vishay Dale	CRCW04020000Z0ED	Fitted	
61	1	S1	SENSOR AUDIO, OMNIDIRECTIONAL, HCLGA	STMicroelectronics	MP34DT05TR	Fitted	
62	3	SH1, SH2, SH3	SHUNT, ECON, PHBR 15 AU, BLACK	Samtec	SNT-100-BK-G-H	Fitted	
63	1	SW1	SLIDE SWITCH SPDT 2POS 6V	Copal	CAS-D20B	Fitted	
64	2	SW2, SW3	SWITCH TACTILE SPST-NO 0.05A 12V	C&K	PTS645SM43SMTR92 LFS	Fitted	
65	1	U1	IC SOC CORTEX-A9, Zynq-7000, 225BGA	Xilinx Inc.	XC7Z007S-1CLG225C	Fitted	
66	1	U2	IC FLASH 128MBIT 133MHZ, 24-BGA	Micron	MT25QL128ABA8E12-1SIT	Fitted	
67	1	U3	IC eMMC 8GB	Micron	MTFC8GAKAJCN-4M IT	Fitted	
68	1	U4	MULTI-FREQ USB 2.0 ULPI PHY	Microchip Technology	USB3320C-EZK	Fitted	
69	1	U5	IC DDR3 SDRAM 4GBIT 933MHZ FBGA, COMMERCIAL	Micron Technology	MT41K256M16TW-107-P	Fitted	
70	1	U6	IC USB HS DUAL UART/FIFO 64-QFN	FTDI, Future Technology Devices International Ltd	FT232RLQ-REEL	Fitted	
71	1	U7	IC EEPROM 2KBIT 2MHZ SOT23-6	Microchip Technology	93LC56BT-I/OT	Fitted	
72	1	U8	W-LAN+Bluetooth Combo Module	MURATA	LBEE5KL1DX-883	Fitted	

73	3	U9, U13, U16	IC BUFFER N-INV OP/DRAIN 6TSSOP	NXP Semiconductors	74LVC2G07GW,125	Fitted	
74	1	U10	ACCEL 2-16G I2C/SPI 12LGA	STMicroelectronics	LIS2DS12TR	Fitted	
75	1	U11	IC REG BUCK SYNC, 4 OUTPUTS	Dialog Semiconductor	DA9062-10AM1	Fitted	
76	1	U14	IC BUS TRANSCVR TRI-ST DL 10UQFN	Texas Instruments	SN74AVC2T245RSWR	Fitted	
77	1	X1	CRYSTAL 12MHZ 10PF SMD	Abracon LLC	ABM8G-12.000MHZ-B4Y-T	Fitted	
78	1	X2	CRYSTAL 32.768kHz 12.5PF SMD	Abracon LLC	ABS07AIG-32.768KHZ-1-T	Fitted	
79	1	Y1	OSC MEMS 33.3333MHZ CMOS SMD	Microchip	DSC1001DI1-033.3333T	Fitted	
80	1	Y2	OSC MEMS 24.000MHZ CMOS SMD	Microchip	DSC1001DI1-024.0000T	Fitted	
81	1	Y3	OSC MEMS 232.768kHz LVCOSM SMD	Abracon LLC	ASTMKJ-32.768KHZ-LQ-DCC-T3	Fitted	
82	0	BMPR5	BUMPER CYLINDRICAL 0.25" DIA CLR	3M	SJ5382	Not Fitted	
83	0	C73, C176	CAP CER 10UF 10V 20% X5R 0402	Samsung Electro-Mechanics America, Inc	CL05A106MP5NUNC	Not Fitted	
84	0	C119, C124, C128, C132	CAP CER 22UF 10V 20% X5R 0603	TDK Corporation	C1608X5R1A226M080AC	Not Fitted	
85	0	C157	CAP 20mF 3.3V SURFACE MOUNT	Seiko Instruments	XH311HG-IV07E	Not Fitted	
86	0	J3	CONN HEADR BRKWAY .100 6POS STR, SINGLE ROW	Molex, LLC	0423752490	Not Fitted	
87	0	JP1, JP2, JP3	CONN HEADR BRKWAY .100 2POS STR, SINGLE ROW	TE CONNECTIVITY / AMP	5-146280-2	Not Fitted	
88	0	R3, R17	RES 10.0K OHM 0402 1% 1/16W	Vishay Dale	CRCW040210K0FKED	Not Fitted	
89	0	R68, R105, R107, R108, R109	RES 0.0 OHM JUMP 0402 1/16W	Vishay Dale	CRCW04020000Z0ED	Not Fitted	
90	0	R74	RES 4.75K OHM 0402 1% 1/16W	Vishay Dale	CRCW04024K75FKED	Not Fitted	
91	0	R79, R82, R114	RES 0.0 OHM JUMP 0603 1/10W	Vishay / Dale	CRCW06030000Z0EA	Not Fitted	
92	0	R100	RES 1.00K OHM 0402 1% 1/16W	Vishay Dale	CRCW04021K00FKED	Not Fitted	
93	0	R137	RES 5.62K OHM 0402 1% 1/16W	Vishay Dale	CRCW04025K62FKED	Not Fitted	
94	0	R138	RES 10.2K OHM 0402 1% 1/16W	Vishay Dale	CRCW040210K2FKED	Not Fitted	
95	0	R142, R143, R144, R145	RES 0.0 OHM JUMP 0402 1/16W RF FOOTPRINT	Vishay Dale	CRCW04020000Z0ED	Not Fitted	
<b>Approved</b>				<b>Notes</b>			