

# Bill of Materials

Project: Picozed 7010 I-Grade SOM  
Project Name: PRJ-PZ1SOM  
Revision: E  
BOM: 02  
Variant: 01



Report Date: 10/7/2017 1:17:55 PM

#	Quantity	Designator	Description	Manufacturer 1	Manufacturer Part Number 1	Fitted	Notes
1	16	C1, C9, C10, C13, C14, C15, C18, C23, C27, C29, C30, C35, C37, C41, C46, C49	CAP CER 100UF 6.3V 20% X5R 1206	Murata	GRM31CR60J107ME39L	Fitted	
2	52	C2, C20, C24, C25, C32, C47, C62, C64, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C77, C78, C79, C80, C82, C83, C84, C86, C87, C127, C136, C137, C140, C141, C142, C143, C146, C148, C152, C153, C156, C158, C160, C161, C163, C165, C168, C170, C172, C175, C177, C179, C181, C182	CAP CER 0.1UF 25V 10% X5R 0201	Samsung Electro-Mechanics America, Inc	CL03A104KA3NNNC	Fitted	
3	23	C4, C12, C26, C28, C33, C36, C39, C65, C76, C92, C97, C101, C102, C103, C104, C105, C106, C110, C115, C118, C126, C128, C131	CAP CER 4.7UF 6.3V 20% X5R 0402	Murata	GRM155R60J475ME87D	Fitted	
4	6	C7, C81, C173, C174, C178, C180	CAP CER 2.2UF 25V 20% X5R 0402	TDK Corporation	C1005X5R1E225M050BC	Fitted	
5	11	C8, C40, C48, C51, C53, C55, C57, C63, C119, C183, C184	CAP CER 10UF 25V 20% X5R 0603	TDK	C1608X5R1E106M080AC	Fitted	
6	30	C16, C19, C88, C89, C90, C91, C93, C94, C95, C96, C98, C99, C100, C107, C108, C109, C111, C112, C113, C114, C116, C117, C120, C121, C122, C124, C129, C130, C132, C133	CAP CER 0.47UF 6.3V 10% X5R 0402	Murata	GRM155R60J474KE19D	Fitted	
7	4	C17, C22, C38, C176	CAP CER 47UF 25V 20% X5R 1206	TDK	C3216X5R1E476M160AC	Fitted	
8	22	C31, C34, C123, C125, C135, C138, C139, C144, C145, C147, C149, C150, C151, C154, C155, C157, C159, C162, C164, C166, C167, C169	CAP CER 10000PF 10V 10% X5R 0201	Murata	GRM033R61A103KA01D	Fitted	
9	10	C42, C43, C44, C45, C50, C52, C54, C56, C85, C134	CAP CER 47UF 6.3V 20% X5R 0805	Murata	GRM21BR60J476ME15L	Fitted	
10	4	C58, C59, C60, C61	CAP CER 3300PF 25V 5% X7R 0402	AVX Corporation	04023C332JAT2A	Fitted	
11	1	C171	CAP CER 4.7UF 10V 10% X5R 0402	TDK Corporation	C1005X5R1A475K050BC	Fitted	
12	1	D1	LED GREEN CHIP 0603 TOP EMIT	Avago Technologies US Inc.	HSMC-C190	Fitted	
13	1	ESD1	ESD Bag	3M	TBD	Fitted	-
14	9	JT3, JT4, JT7, JT10, JT11, JT12, JT13, JT14, JT15	RES 0.0 OHM 1/16W JUMP 0402 SMD-3 PAD JUMPER (1-2)	VISHAY DRALORIC	CRCW04020000Z0ED	Fitted	Position 1-2
15	1	JT5	RES 1K OHM 1/16W 1% 0402 SMD-3 PAD JUMPER (1-2)	VISHAY DRALORIC	CRCW04021K00FKED	Fitted	Position 1-2
16	3	JX1, JX2, JX3	CONN RECEPT 100POS .8MM DUAL SMD	FCI	61082-101400LF	Fitted	
17	5	L1, L2, L3, L4, L5	FERRITE BEAD 220 OHM 2.0A 0805	Murata	BLM21PG221SN1D	Fitted	
18	3	L6, L7, L8	FIXED IND 1uH 2.35A 48 mOHM SMD	Bourns	SRN3015-1R0Y	Fitted	
19	1	L9	FIXED IND 2.2uH 6.3A 13 mOHM SMD	Bourns	SRN8040-2R2Y	Fitted	
20	1	Label1	Label, Product	AES	PBA-PZ1SOM-E-02-01	Fitted	'DO NOT' PLACE LABEL ON COMPONENT U11
21	1	Label2	Label, Serial Number	AES	TBD	Fitted	'DO NOT' PLACE LABEL ON COMPONENT U11

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22	1	Label_ESD1	Label, ESD	AES	TBD	Fitted	-
23	1	PCB1	BARE PCB Part Number	AES	PCB-PZ1SOM-E	Fitted	
24	6	Q1, Q2, Q3, Q4, Q5, Q6	MOSFET N-CH 50V 200MA SOT23-3	ON Semiconductor	BSS138LT3G	Fitted	
25	8	R1, R2, R4, R6, R37, R43, R72, R73	RES 1.00K OHM 0402 1% 1/16W	Vishay Dale	CRCW04021K00FKED	Fitted	
26	7	R3, R5, R41, R45, R64, R79, R81	RES 240 OHM 0402 1% 1/16W	Yageo	RC0402FR-07240RL	Fitted	
27	28	R9, R12, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R78, R80, R82, R83, R84, R85, R86, R92	RES 40.2 OHM 0402 1% 1/16W	Vishay Dale	CRCW040240R2FKED	Fitted	
28	8	R10, R11, R13, R47, R56, R59, R70, R76	RES 20.0K OHM 0402 1% 1/16W	Vishay Dale	CRCW040220K0FKED	Fitted	
29	4	R14, R52, R55, R68	RES 0.0 OHM JUMP 0402 1/16W	Bourns	CR0402-J/-000GLF	Fitted	
30	15	R33, R34, R53, R57, R58, R60, R61, R62, R63, R66, R67, R69, R89, R94, R95	RES 10.0K OHM 0402 1% 1/16W	Vishay Dale	CRCW040210K0FKED	Fitted	
31	2	R35, R39	RES 18.7K OHM 0402 1% 1/16W	Panasonic	ERJ-2RKF1872X	Fitted	
32	1	R36	RES 13.0K OHM 0402 1% 1/16W	Vishay Dale	CRCW040213K0FKED	Fitted	
33	1	R38	RES 15.0K OHM 0402 1% 1/16W	Vishay Dale	CRCW040215K0FKED	Fitted	
34	1	R40	RES 1.5K OHM 0402 1% 1/16W	Vishay Dale	CRCW04021K50FKED	Fitted	
35	1	R42	RES 56.2K OHM 0402 1% 1/16W	Vishay Dale	CRCW040256K2FKED	Fitted	
36	1	R44	RES 18.2K OHM 0402 1% 1/16W	Vishay Dale	CRCW040218K2FKED	Fitted	
37	9	R46, R48, R54, R65, R71, R87, R88, R90, R93	RES 4.99K OHM 0402 1% 1/16W	Vishay Dale	CRCW04024K99FKED	Fitted	
38	1	R51	RES 8.06K OHM 0402 1% 1/16W	Vishay Dale	CRCW04028K06FKED	Fitted	
39	3	R74, R75, R77	RES 80.6 OHM 0402 1% 1/16W	Vishay / Dale	CRCW040280R6FKED	Fitted	
40	1	R91	RES 300K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF3003X	Fitted	
41	2	RP1, RP2	RES ARRAY 4.7K OHM 4 RES 1206	Bourns	CAT16-4701F4LF	Fitted	
42	1	SW1	SLIDE SWITCH SPDT 2POS 6V	Copal	CAS-D20B	Fitted	
43	1	U3	IC eMMC 8GB	Micron	MTFC8GAKAJCN-4M IT	Fitted	
44	1	U4	SINGLE-PORT EEE GIGABIT ETHERNET PHY WITH RGMII, INDUSTRIAL	Marvell	88E1512-A0-NNP21000	Fitted	
45	1	U5	MULTI-FREQ USB 2.0 ULPI PHY	Microchip Technology	USB3320C-EZK	Fitted	
46	1	U6	IC FLASH 128MBIT 133MHZ, 24-BGA	Micron	MT25QL128ABA8E12-1SIT	Fitted	
47	1	U7	OSC MEMS 24.000MHZ CMOS SMD	Abracon LLC	ASDMB-24.000MHZ-LC-T	Fitted	
48	1	U8	OSC MEMS 25.000MHZ CMOS SMD	Abracon LLC	ASDMB-25.000MHZ-LY-T	Fitted	
49	1	U9	IC GATE AND 2CH 2-INP 8-X2SON	TEXAS INSTRUMENTS	SN74AUP2G08DQER	Fitted	
50	1	U10	IC TRANSLATOR VOLTAGE 8-X2SON	TEXAS INSTRUMENTS	TXS0102DQER	Fitted	
51	1	U11	IC SOC CORTEX-A9, Zynq-7000, 400BGA, INDUSTRIAL	Xilinx Inc.	XC7Z010-1CLG400I	Fitted	
52	1	U12	OSC MEMS 33.333MHZ CMOS SMD	Abracon LLC	ASDMB-33.333MHZ-LY-T	Fitted	
53	2	U13, U14	IC DDR3 SDRAM 4GBIT 933MHZ FBGA, INDUSTRIAL	Micron	MT41K256M16TW-107 IT:P	Fitted	
54	1	U15	IC REG DDR TERMINATION 3A 10DFN	ON Semiconductor	NCP51400MNTXG	Fitted	
55	4	U16, U17, U18, U19	IC REG BUCK SYNC ADJ 3A 16QFN	TEXAS INSTRUMENTS	TLV62130RGTT	Fitted	
56	1	U20	IC GATE AND 1CH 2-INP SOT-5	TEXAS INSTRUMENTS	SN74AHC1G08DRLR	Fitted	
57	0	C3, C11, C21	CAP CER 100UF 6.3V 20% X5R 1206	Murata	GRM31CR60J107ME39L	Not Fitted	
58	0	C5	CAP CER 4.7UF 6.3V 20% X5R 0402	Murata	GRM155R60J475ME87D	Not Fitted	
59	0	C6	CAP CER 0.1UF 25V 10% X5R 0201	Samsung Electro-Mechanics America, Inc	CL03A104KA3NNNC	Not Fitted	

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60	0	JP1	CONN HEADER 3POS 0.100" VERT SMD	TE Connectivity AMP Connectors	3-647166-3	Not Fitted	
61	0	JT8, JT9	RES 0.0 OHM 1/16W JUMP 0402 SMD-3 PAD JUMPER (1-2)	VISHAY DRALORIC	CRCW04020000Z0ED	Not Fitted	Position 1-2
62	0	R7, R8, R49, R50	RES 0.0 OHM JUMP 0402 1/16W	Bourns	CR0402-JI-000GLF	Not Fitted	

Approved

Notes