

Bill of Materials				AVNET[®] Reach Further[™]			
Project: PicoZed 7015/7030 SOM Project Name: PRJ-PZ2SOM Revision: E BOM: 04 Variant: 02							
Report Date: 5/20/2020 4:42 PM							
#	Quantity	Designator	Description	Manufacturer 1	Manufacturer Part Number 1	Fitted	Notes
1	9	C1, C6, C19, C24, C108, C134,	CAP CER 47UF 6.3V 20% X5R 0805	KEMET	C0805C476M9PACTU	Fitted	
2	56	C2, C3, C4, C5, C7, C8, C9,	CAP CER 0.1UF 25V 10% X5R 0201	Samsung	CL03A104KA3NNNC	Fitted	
3	23	C11, C12, C13, C14, C15, C16,	CAP CER 10000PF 10V 10% X5R 0201	Kyocera AVX	0201ZD103KAT2A	Fitted	
4	1	C39	CAP CER 4.7UF 10V 10% X5R 0402	TDK	C1005X5R1A475K050BC	Fitted	
5	14	C40, C41, C63, C99, C161,	CAP CER 10UF 25V 20% X5R 0603	TDK	C1608X5R1E106M080AC	Fitted	
6	20	C45, C46, C77, C80, C83,	CAP CER 100UF 6.3V 20% X5R 1206	Taiyo Yuden	JMK316BJ107ML-T	Fitted	
7	25	C47, C48, C51, C56, C78, C81,	CAP CER 4.7UF 6.3V 20% X5R 0402	Murata	GRM155R60J475ME87D	Fitted	
8	34	C57, C93, C109, C110, C117,	CAP CER 0.47UF 6.3V 10% X5R 0402	Kyocera AVX	04026D474KAT2A	Fitted	
9	6	C68, C72, C75, C87, C90, C182	CAP CER 2.2UF 25V 20% X5R 0402	TDK	C1005X5R1E225M050BC	Fitted	
10	4	C71, C74, C86, C89	CAP CER 47UF 25V 20% X5R 1206	TDK	C3216X5R1E476M160AC	Fitted	
11	1	C169	CAP CER 56PF 25V 10% NP0 0402	KEMET	C0402C560J5GACTU	Fitted	
12	1	C170	CAP CER 2200PF 25V 10% X7R 0402	KEMET	C0402C222K3RACTU	Fitted	
13	3	C174, C177, C180	CAP CER 3300PF 25V 5% X7R 0402	Kyocera AVX	04023C332JAT2A	Fitted	
14	1	D3	LED GREEN CHIP 0603 TOP EMIT	Broadcom Avago	HSMQ-C191	Fitted	
15	1	ESD1	ESD Bag	3M	TBD	Fitted	-
16	1	JT2	RES 1K OHM 1/16W 1% 0402 SMD-3 PAD JUMPER (2-3)	Panasonic	ERJ-2RKF1001X	Fitted	Position 2-3
17	9	JT3, JT4, JT7, JT10, JT11, JT12,	RES 0.0 OHM 1/16W JUMP 0402 SMD-3 PAD JUMPER (1-2)	Yageo	RC0402JR-070RL	Fitted	Position 1-2
18	3	JX1, JX2, JX3	CONN RECEPT 100POS .8MM DUAL SMD	Amphenol FCI	61082-101400LF	Fitted	
19	8	L1, L2, L3, L4, L5, L6, L7, L8	FERRITE BEAD 220 OHM 2 0A 0805	Murata	BLM21PG221SN1D	Fitted	
20	1	L9	FIXED IND 820NH 15A 5.5 MOHM SMD	Bourns	SRP6540-R82M	Fitted	
21	3	L10, L11, L12	FIXED IND 1uH 2.35A 48 mOHM SMD	Bourns	SRN3015-1R0Y	Fitted	
22	1	Label1	Label, Product	AES	PBA-PZ2SOM-E-04-02	Fitted	-
23	1	Label2	Label, Serial Number	AES	TBD	Fitted	-
24	1	Label_ESD1	Label, ESD	AES	TBD	Fitted	-
25	1	PCB1	BARE PCB Part Number	AES	PCB-PZ2SOM-E	Fitted	
26	6	Q1, Q2, Q3, Q4, Q5, Q6	MOSFET N-CH 50V 200MA SOT23-3	ON Semiconductor	BSS138LT3G	Fitted	
27	6	R1, R2, R33, R39, R50, R58	RES 240 OHM 0402 1% 1/16W	Yageo	RC0402FR-07240RL	Fitted	
28	3	R3, R7, R30	RES 80.6 OHM 0402 1% 1/16W	Panasonic	ERJ-2RKF80R6X	Fitted	
29	28	R4, R5, R6, R8, R9, R10, R11,	RES 40.2 OHM 0402 1% 1/16W	Vishay	CRCW040240R2FKED	Fitted	
30	16	R19, R20, R45, R48, R49, R52,	RES 10.0K OHM 0402 1% 1/16W	Panasonic	ERJ-2RKF1002X	Fitted	
31	8	R32, R34, R35, R36, R38, R41,	RES 1.00K OHM 0402 1% 1/16W	Panasonic	ERJ-2RKF1001X	Fitted	
32	7	R37, R43, R61, R65, R69, R75,	RES 4.99K OHM 0402 1% 1/16W	Panasonic	ERJ-2RKF4991X	Fitted	
33	4	R40, R44, R51, R87	RES 0.0 OHM JUMP 0402 1/16W	Yageo	RC0402JR-070RL	Fitted	
34	2	R47, R56	RES 8.06K OHM 0402 1% 1/16W	Panasonic	ERJ-2RKF8061X	Fitted	
35	1	R54	RES 2.55K OHM 0402 1% 1/16W	Panasonic	ERJ-2RKF2551X	Fitted	
36	1	R57	RES 232K OHM 0603 1% 1/10W	Panasonic	ERJ-3EKF2323V	Fitted	
37	1	R62	RES 13.0K OHM 0402 1% 1/16W	Yageo	RT0402BRD0713KL	Fitted	
38	1	R63	RES 56.2K OHM 0402 1% 1/16W	Panasonic	ERJ-2RKF5622X	Fitted	
39	2	R64, R70	RES 15.0K OHM 0402 1% 1/16W	Vishay	CRCW040215K0FKED	Fitted	
40	1	R66	RES 18.2K OHM 0402 1% 1/16W	Panasonic	ERJ-2RKF1822X	Fitted	
41	1	R67	RES 1.5K OHM 0402 1% 1/16W	Yageo	RC0402FR-071K5L	Fitted	
42	1	R68	RES 18.7K OHM 0402 1% 1/16W	Panasonic	ERJ-2RKF1872X	Fitted	
43	7	R82, R83, R84, R85, R88, R89,	RES 20.0K OHM 0402 1% 1/16W	Panasonic	ERJ-2RKF2002X	Fitted	
44	1	R91	RES 100 OHM 0402 1% 1/16W	Yageo	RC0402FR-07100RL	Fitted	
45	1	R93	RES 300K OHM 0402 1% 1/16W	Yageo	RC0402FR-07300KL	Fitted	
46	2	RP1, RP2	RES ARRAY 4.7K OHM 4 RES 1206	Bourns	CAT16-472J4LF	Fitted	
47	1	SW1	SLIDE SWITCH SPDT 2POS 6V	Nidec Copal	CAS-D20TB	Fitted	
48	1	U1	IC SOC CORTEX A-9, Zynq-7000, 485BGA, INDUSTRIAL	Xilinx	XC7Z030-1SBG485I	Fitted	
49	2	U2, U3	IC DDR3 SDRAM 4GBIT 933MHZ FBGA, INDUSTRIAL	Micron Technology	MT41K256M16TW-107IT-P	Fitted	
50	1	U4	IC REG DDR TERMINATION 3A 10DFN	ON Semiconductor	NCP51400MNTXG	Fitted	
51	1	U5	SINGLE-PORT EEE GIGABIT ETHERNET PHY WITH RGMII	Marvell	88E1512-A0-NNP21000	Fitted	
52	1	U6	OSC MEMS 25.000MHZ CMOS SMD	Abrakon	ASDMB-25.000MHZ-LC-T	Fitted	
53	1	U7	MULTI-FREQ USB 2.0 ULPI PHY	Microchip	USB3320C-EZK	Fitted	
54	1	U8	IC GATE AND 2CH 2-INP 8-X2SON	Texas Instruments	SN74AUP2G08DQER	Fitted	
55	1	U9	OSC MEMS 24.000MHZ CMOS SMD	Abrakon	ASDMB-24.000MHZ-LC-T	Fitted	
56	1	U10	IC GATE AND 1CH 2-INP SOT-5	Texas Instruments	SN74AHC1G08DRLR	Fitted	
57	1	U11	IC REG BUCK ADJ 6A SYNC 16WQFN	Texas Instruments	TPS54618RTER	Fitted	
58	3	U12, U13, U14	IC REG BUCK ADJUSTABLE 3A 16QFN	Texas Instruments	TLV62130ARGTT	Fitted	
59	1	U15	IC eMMC 64Gb (8G x 8)	Micron Technology	MTFC8GAKAJCN-4MIT	Fitted	
60	1	U16	OSC MEMS 33.333MHZ CMOS SMD	Abrakon	ASDMB-33.333MHZ-LC-T	Fitted	
61	1	U17	IC FLASH 128MBIT 133MHZ, 24-BGA, With Security	Micron Technology	MT25QL128ABA8E12-0SITTR	Fitted	
62	1	U20	IC TRANSLATOR VOLTAGE 8-X2SON	Texas Instruments	TXS0102DQER	Fitted	
63	0	C190	CAP CER 47UF 25V 20% X5R 1206	TDK	C3216X5R1E476M160AC	Not Fitted	
64	0	C191	CAP CER 2.2UF 25V 20% X5R 0402	TDK	C1005X5R1E225M050BC	Not Fitted	
65	0	C192	CAP CER 0.1UF 25V 10% X5R 0201	Samsung	CL03A104KA3NNNC	Not Fitted	
66	0	JP1	CONN HEADER 3POS 0.100" VERT SMD	TE Connectivity	3-647166-3	Not Fitted	
67	0	JT8, JT9	RES 0.0 OHM 1/16W JUMP 0402 SMD-3 PAD JUMPER (1-2)	Yageo	RC0402JR-070RL	Not Fitted	Position 1-2
68	0	R71, R72, R73, R74	RES 0.0 OHM JUMP 0402 1/16W	Yageo	RC0402JR-070RL	Not Fitted	
Approved				Notes			