

Bill of Materials

Project: UltraZed-EV Carrier Card
 Project Name: PRJ-US3CAR
 Revision: 1
 BOM: 01
 Variant: 02



Report Date: 2/5/2018 12:48:50 PM

#	Quantity	Designator	Description	Manufacturer 1	Manufacturer Part Number 1	Fitted	Notes
1	10	BMPR1, BMPR2, BMPR3,	BUMPER CYLIN 0.375" DIA BLK	3M	SJ61A4	Fitted	
2	2	BPH1, BPH2	SFP+ Cage	TE CONNECTIVITY / AMP	2007194-1	Fitted	
3	1	BTH1	HOLDER BATT FOR LR44 COIN SMD	#N/A	#N/A	Fitted	
4	131	C1, C2, C3, C4, C5, C8, C9, C10,	CAP CER 0.1UF 25V 10% X5R 0201	Taiyo Yuden	TMK063C6104KP-F	Fitted	
5	7	C6, C7, C65, C71, C92, C182,	CAP CER 10UF 10V 20% X5R 0402	Samsung Electro-Mechanics America, Inc	CL05A106MP5NUNC	Fitted	
6	7	C17, C20, C29, C31, C34, C100,	CAP CER 10UF 10V 10% X5R 0603	TDK Corporation	C1608X5R1A106K080AC	Fitted	
7	1	C22	CAP CER 10UF 16V 10% X5R 0805	Samsung Electro-Mechanics America, Inc	CL21A106KOFNNE	Fitted	
8	4	C25, C89, C97, C167	CAP CER 1UF 50V 10% X7R 0805	KEMET	C0805C105K5RACTU	Fitted	
9	1	C27	CAP CER 1UF 25V 10% X5R 0603	AVX Corporation	06033D105KAT2A	Fitted	
10	1	C48	CAP CER 8PF 50V 5% NPO 0402	Murata	GRM1555C1H8R0DA01D	Fitted	
11	1	C49	CAP CER 6PF 50V 5% NPO 0402	Murata	GRM1555C1H6R0DA01D	Fitted	
12	5	C60, C61, C62, C63, C64	CAP CER 0.1UF 50V 10% X7R 0603	AVX Corporation	06035C104KAT2A	Fitted	
13	8	C74, C75, C76, C91, C99, C102,	CAP CER 10000PF 16V 10% X7R 0402	AVX Corporation	0402YC103KAT2A	Fitted	
14	6	C106, C107, C109, C110, C111,	CAP CER 4.7UF 6.3V 20% X5R 0402	KEMET	C0402C475M9PAC7867	Fitted	
15	12	C108, C112, C219, C221, C223,	CAP CER 1UF 25V 10% X5R 0402	Murata	GRM155R6E105KA12D	Fitted	
16	12	C121, C124, C127, C130, C132,	CAP CER 22UF 10V 20% X5R 0603	TDK Corporation	C1608X5R1A226M080AC	Fitted	
17	11	C135, C139, C204, C207, C208,	CAP CER 220UF 6.3V 20% X5R 1210	Samsung Electro-Mechanics America, Inc	CL32A227MQVNNNE	Fitted	
18	8	C136, C186, C192, C193, C222,	CAP CER 33UF 25V 20% X5R 1206	TDK	C3216X5R1E336M160AC	Fitted	
19	28	C156, C157, C180, C181, C217,	CAP CER 0.1UF 25V 10% X7R 0402	AVX Corporation	04023C104KAT2A	Fitted	
20	1	C159	CAP CER 2.2UF 25V 10% X5R 0603	Samsung Electro-Mechanics America, Inc	CL10A225KA5LNNC	Fitted	
21	1	C162	CAP CER 4.7UF 25V 10% X5R 0805	AVX Corporation	08053D475KAT2A	Fitted	
22	0	C164	CAP CER 4.7UF 25V 10% X5R 0805	AVX Corporation	08053D475KAT2A	Not Fitted	
23	2	C165, C231	CAP CER 5.6UF 10V 10% X7R 1206	KEMET	C1206C565K8RACTU	Fitted	
24	1	C168	CAP ALUM 120UF 6.3V 20% 2917	Panasonic Electronic Components	EEF-CX0J121R	Fitted	
25	1	C171	CAP ALUM 150UF 6.3V 20% 2917	Panasonic Electronic Components	EEF-CX0J151XR	Fitted	
26	0	C174	CAP CER 10UF 10V 20% X5R 0402	Samsung Electro-Mechanics America, Inc	CL05A106MP5NUNC	Not Fitted	
27	1	C175	CAP CER 22UF 25V 10% X5R 1206	Murata	GRT31CR61E226KE01L	Fitted	
28	5	C177, C218, C220, C260, C262	CAP CER 22UF 25V 20% X5R 0805	TDK Corporation	C2012X5R1E226M125AC	Fitted	
29	5	C178, C185, C190, C191, C252	CAP ALUM POLY 220UF 20% 25V SMD	United Chemi-Con	APXG250ARA221MJA0G	Fitted	
30	1	C184	CAP CER 2200PF 10V 10% X5R 0201	AVX Corporation	0201ZD222KAT2A	Fitted	
31	1	C187	CAP CER 1UF 16V 20% X5R 0201	Samsung Electro-Mechanics America, Inc	CL03A105MO3NRNH	Fitted	
32	1	C189	CAP CER 3300PF 50V 5% X7R 0402	KEMET	C0402C332J5RACTU	Fitted	
33	1	C195	CAP CER 6800PF 50V 10% X7R 0402	KEMET	C0402C682K5RACTU	Fitted	
34	1	C196	CAP CER 4700PF 50V 5% X7R 0402	AVX Corporation	04025C472JAT2A	Fitted	
35	1	C197	CAP CER 120PF 50V 10% X7R 0402	AVX	04025C121KAT2A	Fitted	
36	1	C198	CAP CER 62PF 50V 5% NPO 0402	AVX Corporation	04025A620FAT2A	Fitted	
37	2	C199, C200	CAP CER 2.2UF 10V 10% X5R 0201	Murata	GRM033R61A225KE47D	Fitted	
38	0	C203	CAP CER 220UF 6.3V 20% X5R 1210	Samsung Electro-Mechanics America, Inc	CL32A227MQVNNNE	Not Fitted	
39	9	C205, C209, C227, C237, C247,	CAP CER 47UF 10V 20% X5R 1206	TDK	CL31A476MPHNNE	Fitted	
40	0	C211, C212, C213, C214, C258,	CAP CER 0.1UF 25V 10% X7R 0402	AVX Corporation	04023C104KAT2A	Not Fitted	
41	0	C215	CAP CER 0.1UF 25V 10% X5R 0201	Taiyo Yuden	TMK063C6104KP-F	Not Fitted	
42	4	C240, C241, C275, C276	CAP CER 4.7UF 10V 10% X5R 0402	TDK Corporation	C1005X5R1A475K050BC	Fitted	
43	2	C242, C277	CAP CER 2.2UF 25V 20% X5R 0402	Murata	GRM155R61E225ME15D	Fitted	
44	4	C255, C256, C289, C291	CAP CER 10000PF 25V 10% X7R 0402	AVX Corporation	04023C103KAT2A	Fitted	
45	0	C293, C294	CAP CER 10000PF 16V 10% X7R 0402	AVX Corporation	0402YC103KAT2A	Not Fitted	
46	1	D1	DIODE SCHOTTKY 40V 2A SMB	ON Semiconductor	MBR5240L3G	Fitted	
47	1	D2	TVS DIODE 5.5VWM SOT6	TEXAS INSTRUMENTS	TPD4E001DRLR	Fitted	
48	15	D3, D14, D15, D26, D27, D28,	LED SMARTLED 570NM GREEN 0603	OSRAM Opto Semiconductors Inc	LG L29K-F2J1-24-Z	Fitted	
49	1	D4	TVS DIODE 5.5VWM 1S0N	TEXAS INSTRUMENTS	TPD8S009DSMR	Fitted	
50	0	D5	DIODE SCHOTTKY 30V 0.2A SOT23-3	Diodes Inc.	BAT400D-7-F	Not Fitted	
51	5	D6, D7, D8, D9, D41	TVS DIODE 5.5VWM 14VC 10SON	TEXAS INSTRUMENTS	TPD4E05U06DQAR	Fitted	
52	5	D10, D11, D12, D37, D39	LED YELLOW CLEAR 0603 SMD	Lite-On Inc.	LTST-C190YKT	Fitted	
53	3	D13, D43, D45	DIODE SCHOTTKY 30V 0.2A SOT23-3	Diodes Inc.	BAT400D-7-F	Fitted	

54	10	D16, D17, D18, D19, D20, D21,	LED CHIPLED 633NM RED 0603 SMD	OSRAM Opto Semiconductors Inc	LS Q976-NR-1	Fitted	
55	1	D38	TVS DIODE 20VWM SMD	Bourns	CDSOT23-SR208	Fitted	
56	1	D42	TVS DIODE 5.5VWM BVC SOT3	TEXAS INSTRUMENTS	TPD2EUSB30DRTR	Fitted	
57	1	D44	DIODE ZENER 2V 500MW SOD123	Micro Commercial Co	MMSZ4679-TP	Fitted	
58	1	ESD1	ESD Bag	3M	=ESDBagPN	Fitted	
59	12	FB1, FB2, FB4, FB5, FB12,	FERRITE BEAD 20 OHM 0402 1LN	MURATA	BLM15KD200SN1D	Fitted	
60	2	FB3, FB11	FERRITE BEAD 600 OHM 0.3A 0402	Murata	BLM15AG601SN1D	Fitted	
61	2	FB6, FB7	FERRITE BEAD 80 OHM 1.5A 0402	Murata	BLM15PD800SN1D	Fitted	
62	2	FB8, FB9	FERRITE BEAD 220 OHM 0603 1LN	TDK Corporation	MPZ1608S221ATA00	Fitted	
63	0	FB10	FERRITE BEAD 600 OHM 0.3A 0402	Murata	BLM15AG601SN1D	Not Fitted	
64	4	J1, J2, J3, J4	CONN SMA JACK STR 50 OHM SMD	Molex, LLC	0732511350	Fitted	
65	0	J5	Header TH 100mil 6X2 PMOD Vertical	TE CONNECTIVITY / AMP	5-146252-6	Not Fitted	
66	1	J6	CONN HEADER 7POS VERT SMD 15GOLD	Molex, LLC	0678005005	Fitted	
67	1	J7	CONN MICRO SD CARD PUSH-PUSH R/A	Molex	502570-0893	Fitted	
68	1	J8	CONN MAGJACK 1PORT 1000 BASE-T	Bel Fuse Inc	L829-1J1T-43	Fitted	
69	2	J9, J10	HDMI REC R/A, VERTICAL, TH	TE Connectivity AMP Connectors	2007435-1	Fitted	
70	3	J11, J12, J13	CONN BNC JACK RA 75 OHM SMD	Samtec	BNCT7-J-P-HN-RA-BH1	Fitted	
71	1	J14	PCI EXPRESS CARD EDGE, RECEPTACLE, 36 CONTACTS, 1mm PITCH, TH	Samtec	PCIE-036-02-F-D-TH	Fitted	
72	1	J15	CONN HEADER 14POS 2MM VERT SMD	Molex Inc	0878321420	Fitted	
73	1	J16	CONN RCPT MICRO USB AB R/A SMD	Molex Inc	0475890001	Fitted	
74	1	J17	CONN RCPT MICRO USB 3.0 AB R/A SMD 10 POS	Kycon	KMMX-AB10-SMT1SB30TR	Fitted	
75	1	J18	CONN HEADER 6POS 4.2MM R/A TIN	Molex, LLC	0039301060	Fitted	
76	0	J19, J20	CONN HEADR BRKWAY .100 4POS STR, DUAL ROW	Molex Inc	0010897081	Not Fitted	
77	1	J21	CONN HEADR BRKWAY .100 6POS STR, SINGLE ROW	Molex, LLC	0423752490	Fitted	
78	1	J22	CONN HEADR BRKWAY .100 4POS STR, SINGLE ROW	Molex, LLC	0423752488	Fitted	
79	3	JA1, JA2, JPS1	Header TH 100mil 6X2 Right Angle PMOD Horizontal	SAMTEC	SSW-106-02-T-D-RA	Fitted	
80	17	JH1, JH2, JH3, JH4, JH5, JH6,	SHUNT, ECON, PHBR 15 AU, BLACK	Samtec	SNT-100-BK-G-H	Fitted	
81	12	JP1, JP2, JP3, JP4, JP5, JP6,	CONN HEADR BRKWAY .100 2POS STR, SINGLE ROW	TE CONNECTIVITY / AMP	5-146280-2	Fitted	
82	0	JP13, JP15	CONN HEADR BRKWAY .100 2POS STR, SINGLE ROW	TE CONNECTIVITY / AMP	5-146280-2	Not Fitted	
83	1	JP14	CONN HEADER 3PIN	Molex, LLC	0022272031	Fitted	
84	8	JP16, JP17, JP18, JP19, JP20,	CONN HEADR BRKWAY .100 3POS STR, SINGLE ROW	Amphenol FCI	68001-403HLF	Fitted	
85	6	JT1, JT2, JT3, JT4, JT5, JT6	RES 4.7K OHM 1/16W 1% 0402 SMD-3 PAD JUMPER (1-2)	Panasonic Electronic Components	ERJ-2RKF4701X	Fitted	Position 1-2
86	2	JX1, JX2	ULTRA-HIGH DENSITY, JACK, 200POS, 0.8MM PITCH, 7MM STACK	Samtec	SEAF8-50-05.0-S-04-2-K	Fitted	
87	1	JX3	ULTRA-HIGH DENSITY, JACK, 120POS, 0.8MM PITCH, 7MM STACK	Samtec	SEAF8-30-05.0-S-04-2-K	Fitted	
88	1	JX4	CONN, VITA 57 FMC, RCPT, 400POS, 10ROW	Samtec	SEAF-40-06.5-S-10-2-A-K-TR	Fitted	
89	8	L1, L2, L3, L4, L5, L6, L7, L8	FIXED IND 20NH 370MA 270 mOHM	Murata	LQW15AN20NJ00D	Fitted	
90	1	L9	FIXED IND 2.7nH 220MA 300 mOHM	Murata	LQP15MN2N7W02D	Fitted	
91	4	L10, L11, L13, L14	FIXED IND 1UH 2.05A 45 mOHM SMD	Murata	LQH32PN1R0NN0L	Fitted	
92	2	L12, L15	FERRITE BEAD 220 OHM 2.0A 0805	Murata	BLM21PG221SN1D	Fitted	
93	2	L16, L17	FIXED IND 1UH 20A 3.5 mOHM SMD	Bourns	SRP1040-1R0M	Fitted	
94	5	L18, L19, L22, L23, L24	FIXED IND 1.5UH 6A 25 MOHM SMD	Bourns	SRP5030T-1R5M	Fitted	
95	2	L20, L21	FIXED IND 3.3UH 5A 38 MOHM SMD	Bourns	SRP5030T-3R3M	Fitted	
96	1	Label1	Label, Product	AES	=PCBA_PN + '+' + brd_rev + '+' + BOM + '+' + BOM_variant	Fitted	
97	1	Label2	Label, Serial Number	AES	=SerialNumberFormat	Fitted	
98	1	Label_ESD1	Label, ESD	AES	=ESD_Label_PN	Fitted	
99	2	P1, P2	CONN RCPT R/A W/O FLANGE SMD	Molex, LLC	472720001	Fitted	
100	2	P3, P4	CONN PT USE W/SFP+ CAGE 30AU SMD	TE CONNECTIVITY / AMP	1888247-1	Fitted	
101	1	PCB1	BARE PCB Part Number	AES	PBA-US3CAR-1	Fitted	
102	0	Q1	MOSFET N-CH 50V 200MA SOT23-3	Infineon Technologies	BSS138NH6327XTSA2	Not Fitted	
103	8	Q2, Q3, Q4, Q5, Q28, Q29, Q30,	MOSFET N-CH 50V 200MA SOT23-3	Infineon Technologies	BSS138NH6327XTSA2	Fitted	
104	22	Q6, Q7, Q8, Q9, Q10, Q11, Q12,	TRANS NPN 40V 0.2A SOT-23	ON Semiconductor	MMBT3904LT3G	Fitted	
105	1	Q32	MOSFET P-CH 30V 100A TDSO8	Infineon	BSC03P03NS3 G	Fitted	
106	32	R1, R37, R46, R47, R74, R75,	RES 1.00K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF1001X	Fitted	
107	1	R2	RES 18.2K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF1822X	Fitted	
108	25	R3, R45, R48, R101, R110,	RES 240 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF2400X	Fitted	
109	1	R4	RES 4.02K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF4021X	Fitted	
110	2	R5, R6	RES 1M OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF1004X	Fitted	
111	8	R7, R77, R230, R233, R239,	RES 10 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF10R0X	Fitted	
112	35	R8, R10, R15, R17, R18, R19,	RES 0.0 OHM JUMP 0402 1/16W	Yageo	RC0402FR-070RL	Fitted	
113	11	R9, R20, R24, R82, R111, R114,	RES 100K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF1003X	Fitted	
114	9	R11, R12, R13, R96, R98, R99,	RES 4.75K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF4751X	Fitted	
115	1	R14	RES 2.49K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF2491X	Fitted	
116	1	R16	RES 1.5K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF1501X	Fitted	
117	12	R21, R23, R64, R65, R66, R68,	RES 49.9 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF49R9X	Fitted	
118	3	R25, R232, R262	RES 2 OHM 0402 1% 1/16W	Vishay Dale	CRCW04022R00FKED	Fitted	
119	43	R26, R27, R28, R29, R30, R31,	RES 10.0K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF1002X	Fitted	
120	2	R32, R33	RES 33 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF33R0X	Fitted	
121	0	R35, R78	RES 10.0K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF1002X	Not Fitted	
122	3	R38, R223, R226	RES 499 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF4990X	Fitted	
123	4	R39, R40, R43, R186	RES 4.99K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF4991X	Fitted	

124	1	R41	RES 40.2 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF40R2X	Fitted	
125	8	R51, R215, R217, R222, R246,	RES 0.0 OHM JUMP 1210 1/2W	Panasonic Electronic Components	ERJ-14Y0R00U	Fitted	
126	3	R54, R57, R62	RES 64.9K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF6492X	Fitted	
127	2	R56, R81	RES SMD 1M OHM 5% 1/16W 0402	Panasonic Electronic Components	ERJ-2GEJ105X	Fitted	
128	1	R60	RES 6.49K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF6491X	Fitted	
129	2	R79, R189	RES 100 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF1000X	Fitted	
130	2	R83, R85	RES 25 OHM 0805 0.1% 1/5W	Vishay Thin Film	PAT0805E25R0BST1	Fitted	
131	4	R84, R86, R88, R89	RES 75 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF75R0X	Fitted	
132	1	R87	RES 750 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF7500X	Fitted	
133	11	R93, R94, R95, R97, R102,	RES 4.70K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF4701X	Fitted	
134	7	R119, R120, R121, R122, R123,	RES 0.0 OHM JUMP 0201 1/20W	Panasonic Electronic Components	ERJ-1GE0R00C	Fitted	
135	7	R130, R131, R132, R136, R138,	RES 22.1 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF22R1X	Fitted	
136	5	R143, R291, R292, R293, R294	RES 2.00K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF2001X	Fitted	
137	0	R192, R229, R259, R265	RES 0.0 OHM JUMP 0402 1/16W	Yageo	RC0402FR-070RL	Not Fitted	
138	1	R202	RES 191 OHM 1206 1% 1/4W	Panasonic Electronic Components	ERJ-8ENF1910V	Fitted	
139	1	R204	RES 118 OHM 0201 1% 1/20W	Panasonic Electronic Components	ERJ-1GEF1180C	Fitted	
140	1	R205	RES 102 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF1020X	Fitted	
141	2	R210, R211	RES 4.75K OHM 0201 1% 1/20W	Panasonic Electronic Components	ERJ-1GNF4751C	Fitted	
142	1	R212	RES 7.15K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF7151X	Fitted	
143	1	R213	RES 5.62K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF5621X	Fitted	
144	1	R214	RES 158 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF1580X	Fitted	
145	1	R216	RES 78.7 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF78R7X	Fitted	
146	1	R218	RES 4.53K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF4531X	Fitted	
147	1	R219	RES 8.45K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF8451X	Fitted	
148	1	R227	RES 7.87K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF7871X	Fitted	
149	1	R228	RES 8.87K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF8871X	Fitted	
150	0	R231, R234, R236, R242, R252,	RES 0.0 OHM JUMP 1210 1/2W	Panasonic Electronic Components	ERJ-14Y0R00U	Not Fitted	
151	8	R235, R238, R240, R241, R245,	RES 649 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF6490X	Fitted	
152	3	R243, R258, R266	RES 49.9K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF4992X	Fitted	
153	2	R248, R275	RES 6.19K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF6191X	Fitted	
154	0	R251, R269	RES 649 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF6490X	Not Fitted	
155	1	R253	RES 5.49K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF5491X	Fitted	
156	0	R254, R272	RES 249 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF2490X	Not Fitted	
157	2	R257, R277	RES 249 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF2490X	Fitted	
158	1	R271	RES 6.98K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF6981X	Fitted	
159	0	R295, R296	RES 2.00K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF2001X	Not Fitted	
160	1	RP1	RES ARRAY 10K OHM 4 RES 1206	Panasonic Electronic Components	EXB-V8V103JV	Fitted	
161	1	RP2	RES ARRAY 8 RES 240 OHM 1606	Rohm Semiconductor	MNR18ERAPJ241	Fitted	
162	1	RP3	RES ARRAY 8 RES 4.7K OHM 1506	Panasonic Electronic Components	EXB-2HV472JV	Fitted	
163	5	SW1, SW2, SW3, SW4, SW6	SWITCH TACTILE SPST-NO 0.05A 24V	TE Connectivity Alcoswitch Switches	1825910-7	Fitted	
164	1	SW5	SWITCH DIP HALF PITCH 8POS 24V	TE CONNECTIVITY / AMP	1-1571983-1	Fitted	
165	1	SW7	SWITCH SLIDE SPDT 6A 120V	C&K Components	1101M2S3CME2	Fitted	
166	1	U1	IC REG LDO ADJ 0.5A 8TDFN	Maxim Integrated	MAX8902BATA+T	Fitted	
167	1	U2	IC DRVVR/RCVVR3.3V LVDS HS 14TSSOP	Fairchild Semiconductor	FIN1019MTCX	Fitted	
168	1	U3	CLOCK GENERATOR 1MHZ TO 350MHZ 24-VFQFPN	Integrated Device Technology	5P49V5935B539LTGI	Fitted	
169	1	U4	IC REG LDO 2.5V 0.15A TSOT23-5	Analog Devices Inc.	ADP121-AUJ25R7	Fitted	
170	1	U5	IC EEPROM 2KBIT 400KHZ 8SOIC	MICROCHIP	24AA025T-I/SN	Fitted	
171	1	U6	UNIVERSAL FREQUENCY TRANSLATOR	IDT	8T49N241-048NLGI	Fitted	
172	1	U7	IC EEPROM 2KBIT 400KHZ SOT23-6, With MAC ID	Microchip Technology	24AA025E48T-I/OT	Fitted	
173	2	U8, U11	IC HDMI ESD PROT 24UQFN	TEXAS INSTRUMENTS	TPD12S016RKTR	Fitted	
174	1	U9	IC RETIMER 6GBPS 48VQFN	Texas Instruments	SN65DP159RGZR	Fitted	
175	1	U10	IC EEPROM 64KBIT 1MHZ 8SOIC	STMicroelectronics	M24C64-DRMN8TP/K	Fitted	
176	1	U12	IC EQUALIZER SDI BROADCAST 16QFN	Microchip	EQCO30R5.D	Fitted	
177	1	U13	IC VIDEO DVR SDI BROADCAST 16QFN	Microchip	EQCO30T5.2	Fitted	
178	1	U14	JTAGSMT2 FPGA PROGRAMMER	Digilent, Inc.	210-251P-BOARD	Fitted	
179	1	U15	IC TXRX TRANSLATING 4B 14DHVQFN	NXP USA Inc.	NTS0104BQ-Q100X	Fitted	
180	1	U16	IC SGL USB-DL UART BRIDGE 24QFN	Silicon Labs	CP2105-F01-GMR	Fitted	
181	1	U17	IC SW CURR LIMIT HI SIDE 8-MSOP	Microchip Technology	MIC2544-1YMM	Fitted	
182	1	U18	IC REG BUCK ADJ 25A SYNC POFN (0x1B)	Infineon	IR38063MTRPBF0X1B	Fitted	(1.80V, 0x1B)
183	1	U19	IC REG BUCK ADJ 25A SYNC POFN (0x1C)	Infineon	IR38063MTRPBF0X1C	Fitted	(3.3V, 0x1C)
184	1	U20	IC REG LDO 3.3V 1.5A D2PAK	ON Semiconductor	NCP565D2T33R4G	Fitted	
185	2	U21, U22	IC REG BUCK SYNC, 5 OUTPUTS (A01)	Infineon	IRPS5401MTRPBF0A01	Fitted	
186	1	X1	CRYSTAL 38.88MHZ 12PF SMD	FOX	603-38-88-7	Fitted	
Approved				Notes			