Bill of Materials

Project: UltraZed-EG PCIe Carrier Card
Project Name: PRJ-US2CAR
Revision: 1
Variant: 00

Report Date: 12/21/2016 3:36:27 PM

#	Quantity	Designator	Description	AES PN	Manufacturer 1	Manufacturer Part Number 1	Manufacturer 2	Manufacturer Part Number 2	Manufacturer 3	Manufacturer Part Number 3	Temp-Range	Fitted	Notes
1	8	BMPR1, BMPR2, BMPR3, BMPR4, BMPR5,	BUMPER CYLIN 0.375" DIA BLK	AVAH-0000003	3M	SJ61A4						Fitted	
2	1	BTH1	HOLDER BATT FOR LR44 COIN SMD	AVAB-0000001	MPD (Memory Protection Devices)	BHX1-LR44-SM						Fitted	
3	68	C1, C2, C3, C4, C8, C10, C11, C13, C15, C16,	CAP CER 0.1UF 25V 10% X5R 0201	AVPC-0000006	TDK Corporation	C0603X5R1E104K030BB	Samsung Electro-Mechanics America, Inc	CL03A104KA3NNNC			-55 to 85C	Fitted	
4	1	C7	CAP CER 2.2UF 25V 10% X5R 0603	AVPC-0000049	Murata	GRM188R61E225KA12D	Samsung Electro-Mechanics America, Inc	CL10A225KA5LNNC	Taiyo Yuden	TMK107ABJ225KA-T	-55 to 85C	Fitted	
5	1	C9	CAP CER 4.7UF 25V 10% X5R 0805	AVPC-0000064	AVX Corporation	08053D475KAT2A	Kemet	C0805C475K3PACTU	Murata	GRM21BR61E475KA12L	-55 to 85C	Fitted	
6	10	C12, C14, C89, C90, C97, C98, C111, C155, C157,	CAP CER 22UF 25V 10% X5R 1206	AVPC-0000081	Murata	GRT31CR61E226KE01L	Samsung Electro-Mechanics America, Inc.	CL31A226KAHNNNE	Samsung Electro-Mechanics America, Inc	CL31A226KAHZNNE	-55 to 85C	Fitted	
7	1	C22	CAP CER 5.6UF 10V 10% X7R 1206	AVPC-0000169	Kemet	C1206C565K8RACTU	Kemet	C1206C565K4RACTU	Kemet	C1206C565J8RACTU	-55 to 125C	Fitted	
8	1	C24	CAP ALUM 150UF 6.3V 20% 2917	AVPC-0000167	Panasonic Electronic Components	EEF-CX0J151XR	Panasonic Electronic Components	EEF-SX0J151ER			-40 to 105C	Fitted	
9	1	C27	CAP ALUM 120UF 6.3V 20% 2917	AVPC-0000168	Panasonic Electronic Components	EEF-CX0J121R					-40 to 105C	Fitted	
10	8	C28, C48, C154, C156, C158, C160, C162, C164	CAP CER 1UF 50V 10% X7R 0805	AVPC-0000074	Kemet	C0805C105K5RACTU	Murata	GRM21BR71H105KA12L	Taiyo Yuden	UMK212B7105KG-T	-55 to 125C	Fitted	
11	26	C37, C39, C40, C44, C46, C59, C65, C91, C92,	CAP CER 10UF 10V 10% X5R 0603	AVPC-0000051	TDK Corporation	C1608X5R1A106K080AC	Murata	GRM188R61A106KE69D	Samsung Electro-Mechanics America, Inc.	CL10A106KP8NNNC	-55 to 85C	Fitted	
12	1	C56	CAP CER 10UF 25V 10% X5R 1206	AVPC-0000077	AVX Corporation	12063D106KAT2A	Kemet	C1206C106K3PACTU	Murata	GRM31CR61E106KA12L	-55 to 85C	Fitted	
13	1	C113	CAP ALUM 220UF 20% 25V SMD	AVPC-0000211	Panasonic Electronic Components	EEE-FTE221XAP					-55 to 105C	Fitted	
14	1	C114	CAP ALUM 560UF 20% 25V SMD	AVPC-0000212	AVX Corporation	UCV1E561MNL1GS					-55 to 105C	Fitted	
15	6	C116, C128, C140, C146, C149, C163	CAP CER 22UF 10V 20% X5R 0603	AVPC-0000121	TDK Corporation	C1608X5R1A226M080AC	Samsung Electro-Mechanics America, Inc.	CL10A226MP8NUNE	Yageo	CC0603MRX5R6BB226	-55 to 85C	Fitted	
16	17	C119, C121, C124, C129, C130, C131, C132,	CAP CER 0.1UF 25V 10% X7R 0402	AVPC-0000034	AVX Corporation	04023C104KAT2A	Murata	GRM155R71E104KE14D	TDK Corporation	C1005X7R1E104K050BB	-55 to 125C	Fitted	
17	3	C122, C123, C125	CAP CER 4.7UF 10V 10% X5R 0402	AVPC-0000026	TDK Corporation	C1005X5R1A475K050BC	Samsung Electro-Mechanics America, Inc.	CL05A475KP5NRNC			-55 to 85C	Fitted	
18	3	C126, C138, C144	CAP CER 220UF 6.3V 20% X5R 1210	AVPC-0000173	Samsung Electro-Mechanics America, Inc	CL32A227MQVNNNE	Taiyo Yuden	JMK325ABJ227MM-T			-55 to 85C	Fitted	
19	4	C127, C135, C139, C145	CAP CER 47UF 16V 20% X5R 1206	AVPC-0000180	TDK Corporation	C3216X5R1C476M160AB	TDK Corporation	C3216X5R1E476M160AC	TDK	C3216X5R1C476MT	-55 to 85C	Fitted	
20	2	C133, C134	CAP CER 100UF 16V 20% X5R 1210	AVPC-0000155	Kemet	C1210C107M4PAC7800	Taiyo Yuden	EMK325ABJ107MM-T			-55 to 85C	Fitted	
21	2	C151, C152	CAP CER 10000PF 25V 10% X7R 0402	AVPC-0000032	AVX Corporation	04023C103KAT2A	Kemet	C0402C103K3RACTU	Murata	GRM155R71E103KA01D	-55 to 125C	Fitted	
22	2	C159, C161	CAP CER 47UF 25V 20% X5R 1206	AVPC-0000082	TDK	C3216X5R1E476M160AC					-55 to 85C	Fitted	
23	1	CON1	CONN SNGL-END ARRAY FMALE 160POS	AVEC-0000079	Samtec	ASP-134603-01	Molex, LLC	0459714305			-55 to 125C	Fitted	
24	9	D1, D12, D13, D14, D15, D16, D17, D18, D19	LED CHIPLED 633NM RED 0603 SMD	AVDL-0000011	OSRAM Opto Semiconductors Inc	LS Q976-NR-1	Rohm Semiconductor	SML-D14VWT86A			-40 to 85C	Fitted	
25	2	D2, D4	LED YELLOW 587NM 0603 SMD	AVDL-0000013	OSRAM Opto Semiconductors Inc	LY L29K-H1K2-26-Z					-40 to 85C	Fitted	
26	1	D3	TVS DIODE 20VWM SMD	AVDD-0000005	Bourns	CDSOT23-SR208					-55 to 150C(TJ)	Fitted	
27	1	D5	TVS DIODE 5.5VWM 8VC SOT3	AVDD-0000019	Texas Instruments	TPD2EUSB30DRTR					-40 to 125C	Fitted	
28	6	D6, D9, D25, D26, D27, D28	LED SMARTLED 570NM GREEN 0603	AVDL-0000010	OSRAM Opto Semiconductors Inc	LG L29K-F2J1-24-Z	OSRAM Opto Semiconductors Inc.	LG L29K-F2J1-24	OSRAM Opto Semiconductors Inc.	LG L29K-G2J1-24-Z	-40 to 85C	Fitted	
29	1	D7	TVS DIODE 5.5VWM 14VC 10SON	AVDD-0000018	Texas Instruments	TPD4E05U06DQAR					-40 to 125C	Fitted	
30	1	D8	DIODE SCHOTTKY 40V 2A SMB	AVDD-0000022	ON Semiconductor	MBRS240LT3G					-55 to 150C	Fitted	
31	1	D10	TVS DIODE 5.5VWM 15SON	AVDD-0000021	Texas Instruments	TPD8S009DSMR					-40 to 85C (TA)	Fitted	
32	1	D11	TVS DIODE 5.5VWM SOT6	AVDD-0000020	Texas Instruments	TPD4E001DRLR	Texas Instruments	TPD4E001DRLRG4			-40 to 85C (TA)	Fitted	
33	3	D21, D22, D23	DIODE SCHOTTKY 30V 0.2A SOT23-3	AVDD-0000016	Diodes Inc.	BAT400D-7-F	Diodes Incorporated	ZHCS500TA	Diodes Incorporated	ZLLS500TA	-40 to 125C	Fitted	
34	1	D24	DIODE ZENER 2V 500MW SOD123	AVDD-0000077	Micro Commercial Co	MMSZ4679-TP	ON Semiconductor	MMSZ4679T1G			-55°C ~ 150°C	Fitted	
35	2	D29, D30	DIODE SCHOTTKY 40V 5A SMC	AVDD-0000039	ON Semiconductor	MBRS540T3G					-65°C ~ 150°C	Fitted	
36	1	ESD1	ESD Bag	AVAM-0000001	3M	=ESDBagPN						Fitted	-
37	2	FB1, FB2	FERRITE BEAD 220 OHM 0603 1LN	AVPI-0000295	TDK Corporation	MPZ1608S221ATA00					-55 to 125C	Fitted	
38	2	FB3, FB5	FERRITE BEAD 600 OHM 0.3A 0402	AVPI-0000026	Murata	BLM15AG601SN1D	TDK Corporation	MMZ1005S601CT000			-55 to 125C	Fitted	
39	4	FB6, FB7, FB8, FB9	FERRITE BEAD 220 OHM 1.0A 0402	AVPI-0000020	Taiyo Yuden	BKP1005EM221-T					-55 to 85C	Fitted	
40	1	J1	CONN MICRO SD CARD PUSH-PUSH R/A	AVEC-0000010	Molex	502570-0893					-25 to 85C	Fitted	
41	1	J2	CONN RCPT MICRO USB AB R/A SMD	AVEC-0000011	Molex Inc	0475890001					-30 to 85C	Fitted	
42	1	J3	CONN HEADER 7POS VERT SMD 15GOLD	AVEC-0000096	Molex, LLC	0678005005					-35 to 85C	Fitted	
43	1	J4	CONN RCPT MICRO USB 3.0 AB R/A SMD 10 POS	AVEC-0000097	Kycon	KMMX-AB10-SMT1SB30TR					-40 to 85C	Fitted	
44	1	J5	CONN MAGJACK 1PORT 1000 BASE-T	AVEC-0000003	Bel Fuse Inc	L829-1J1T-43					0 to 70C	Fitted	
45	1	J6	CONN HEADER 14POS 2MM VERT SMD	AVEC-0000002	Molex Inc	0878321420	Molex, LLC	0878321421			-55 to 105C	Fitted	
46	1	J7	CONN HEADR BRKWAY .100 6POS STR, SINGLE ROW	AVEC-0000017	Molex, LLC	0423752490	FCI	68000-206HLF	TE Connectivity AMP Connectors	5-146280-6	-65 to 105C	Fitted	
47	1	J8	CONN HEADER 6POS 4.2MM R/A TIN	AVEC-0000001	Molex Inc	0039301060	Molex, LLC	0039301061			-40 to 105C	Fitted	
48	1	J9	CONN HEADR BRKWAY .100 4POS STR, SINGLE ROW	AVEC-0000015	Molex, LLC	0423752488	FCI	10117458-20402HLF	TE CONNECTIVITY / AMP	5-146280-4	-65 to 105C	Fitted	
49	1	J10	CONN HEADER 3PIN	AVEC-0000051	Molex, LLC	0022272031					-40 to 105C	Fitted	
50	1	JA	Header TH 100mil 6X2 Right Angle PMOD Horizontal	AVEC-0000075	SAMTEC	SSW-106-02-T-D-RA	Sullins Connector Solutions	PPPC062LJBN-RC			-55 to 105C	Fitted	
51	1	JB	Header TH 100mil 6X2 Right Angle PMOD Horizontal	AVEC-0000076	SAMTEC	SSW-106-02-T-D-RA	Sullins Connector Solutions	PPPC062LJBN-RC			-55 to 105C	Fitted	
52	3	JP1, JP2, JP6	CONN HEADR BRKWAY .100 2POS STR, SINGLE ROW	AVEC-0000013	TE CONNECTIVITY / AMP	5-146280-2	Amphenol FCI	68000-102HLF	Amphenol FCI	68001-402HLF	-65 to 105C	Fitted	
53	8	JP3, JP4, JP5, JP7, JP8, JP10, JP11, JP12	CONN HEADR BRKWAY .100 3POS STR, SINGLE ROW	AVEC-0000014	Amphenol FCI	68001-403HLF	Amphenol FCI	68000-103HLF	TE CONNECTIVITY / AMP	5-146280-3	-65 to 105C	Fitted	
54	1	JPS	Header TH 100mil 6X2 Right Angle PMOD Horizontal	AVEC-0000054	SAMTEC	SSW-106-02-T-D-RA					-55 to 105C	Fitted	
55	2	JT1, JT2	RES 4.7K OHM 1/16W 1% 0402 SMD-3 PAD JUMPER (1-2)	AVPR-0005347	Vishay Dale	CRCW04024K70FKED	Panasonic Electronic Components	ERJ-2RKF4701X	Rohm Semiconductor	TRR01MZPF4701	-55 to 155C	Fitted	Position 1-2
56	2	JX1, JX2	CONN RCPT 140POS .8MM FH 7H 8AU	AVEC-0000092	TE Connectivity AMP Connectors	5177985-6	FCI	61082-141402LF			-40 to 85C	Fitted	
57	1	JX3	CONN RCPT 100POS .8MM FH 7H 8AU	AVEC-0000091	FCI	61082-101402LF	TE Connectivity AMP Connectors	5177985-4			-40 to 85C	Fitted	
58	1	L1	CHOKE COMMON MODE WW 190 OHM SMD	AVPF-0000003	Bourns	SRF0504-191Y					-40 to 125C	Fitted	
59	3	L2, L3, L4	FIXED IND 3.3UH 5A 38 MOHM SMD	AVPI-0000090	Bourns	SRP5030T-3R3M	Bourns	SRP5030TA-3R3M			-40°C ~ 150°C	Fitted	
60	1	L5	FIXED IND 1.5UH 6A 25 MOHM SMD	AVPI-0000089	Bourns	SRP5030T-1R5M	Bourns	SRP50030TA-1R5M			-40°C ~ 150°C	Fitted	
61	2	Label1, Label2	Label, Product	AVAL-0000001	AES	PBA-US2CAR-1-01-00						Fitted	-
62	1	Label_ESD1	Label, ESD	AVAL-0000003	AES	TBD						Fitted	-
63	2	P2, P3	CONN RCPT R/A W/O FLANGE SMD	AVEC-0000095	Molex, LLC	0472720001					-40 to 85C	Fitted	
64	1	PCB1	BARE PCB Part Number	AVAH-0000006	AES	PCB-US2CAR-1						Fitted	
65	11	Q1, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14,	TRANS NPN 40V 0.2A SOT-23	AVDT-0000002	ON Semiconductor	MMBT3904LT3G	ON Semiconductor	MMBT3904LT1G	Diodes Incorporated	MMBT3904-7-F	-55 to 150C	Fitted	
66	7	Q2, Q3, Q4, Q5, Q16, Q17, Q18	MOSFET N-CH 50V 200MA SOT23-3	AVDT-0000001	Infineon Technologies	BSS138NH6327XTSA2	Diodes Incorporated	BSS138-7-F	Diodes Incorporated	BSS138TA	-55°C ~ 150°C (TJ)	Fitted	
67	4	R1, R2, R3, R11	RES 4.99K OHM 0402 1% 1/16W	AVPR-0000948	Vishay Dale	CRCW04024K99FKED	Panasonic Electronic Components	ERJ-2RKF4991X	Rohm Semiconductor	TRR01MZPF4991	-55 to 125C	Fitted	
68	1	R4	RES 40.2 OHM 0402 1% 1/16W	AVPR-0000745	Vishay Dale	CRCW040240R2FKED	Panasonic Electronic Components	ERJ-2RKF40R2X	Stackpole Electronics Inc.	RMCF0402FT40R2	-55 to 125C	Fitted	
69	29	R5, R6, R24, R29, R47, R58, R59, R60, R67, R68,	RES 1.00K OHM 0402 1% 1/16W	AVPR-0000880	Vishay Dale	CRCW04021K00FKED	Panasonic Electronic Components	ERJ-2RKF1001X	Rohm Semiconductor	MCR01MRTF1001	-55 to 125C	Fitted	
70	33	R7, R8, R17, R25, R31, R34, R35, R36, R45, R46,	RES 0.0 OHM JUMP 0402 1/16W	AVPR-0000585	Vishay Dale	CRCW0402000020ED	Rohm Semiconductor	MCR01MRTJ000	Bourns	CR0402-JI-000GLF	-55 to 125C	Fitted	
71	23	R9, R10, R15, R16, R19, R20, R21, R22, R26,	RES 10.0K OHM 0402 1% 1/16W	AVPR-0000977	Vishay Dale	CRCW040210K0FKED	Panasonic Electronic Components	ERJ-2RKF1002X	Rohm Semiconductor	MCR01MRTF1002	-55 to 125C	Fitted	
72	4	R14, R23, R27, R49	RES SMD 240 OHM 5% 1/16W 0402	AVPR-0005400	Vishay Dale	CRCW0402240RJNED	Panasonic	ERJ-2GEJ241X	Rohm Semiconductor	MCR01MRTJ241	-55 to 155C	Fitted	

73	4	R18, R51, R108, R112	RES 100 OHM 0402 1% 1/16W	AVPR-0000783	Vishay Dale	CRCW0402100RFKED	Panasonic Electronic Components	ERJ-2RKF1000X	Rohm Semiconductor	MCR01MRTF1000	-55 to 125C	Fitted	
74	1	R28	RES 191 OHM 1206 1% 1/4W	AVPR-0002599	Vishay Dale	CRCW1206191RFKEA	Panasonic Electronic Components	ERJ-8ENF1910V	Rohm Semiconductor	MCR18ERTF1910	-55 to 125C	Fitted	
75	1	R32	RES 2.49K OHM 0402 1% 1/16W	AVPR-0000919	Vishay Dale	CRCW04022K49FKED	Panasonic	ERJ-2RKF2491X	Rohm Semiconductor	TRR01MZPF2491	-55 to 125C	Fitted	
76	1	R33	RES 1.5K OHM 0402 1% 1/16W	AVPR-0000897	Vishay Dale	CRCW04021K50FKED	Panasonic Electronic Components	ERJ-2RKF1501X	Rohm Semiconductor	MCR01MRTF1501	-55 to 125C	Fitted	
77	2	R37, R39	RES 49.9 OHM 0402 1% 1/16W	AVPR-0000754	Vishay Dale	CRCW040249R9FKED	Panasonic Electronic Components	ERJ-2RKF49R9X	Rohm Semiconductor	MCR01MRTF49R9	-55 to 125C	Fitted	
78	7	R38, R40, R42, R61, R62, R101, R103	RES 100K OHM 0402 1% 1/16W	AVPR-0001074	Vishay Dale	CRCW0402100KFKED	Panasonic Electronic Components	ERJ-2RKF1003X	Rohm Semiconductor	MCR01MRTF1003	-55 to 125C	Fitted	
79	5	R41, R129, R137, R141, R149	RES 10 OHM 0402 1% 1/16W	AVPR-0000686	Vishay Dale	CRCW040210R0FKED	Panasonic Electronic Components	ERJ-2RKF10R0X	Rohm Semiconductor	MCR01MZPF10R0	-55 to 125C	Fitted	
80	3	R43, R44, R128	RES 1M OHM 0402 1% 1/16W	AVPR-0001171	Vishay Dale	CRCW04021M00FKED	Panasonic Electronic Components	ERJ-2RKF1004X	Rohm Semiconductor	MCR01MRTF1004	-55 to 125C	Fitted	
81	1	R48	RES 18.2K OHM 0402 1% 1/16W	AVPR-0001002	Vishay Dale	CRCW040218K2FKED	Panasonic Electronic Components	ERJ-2RKF1822X	Rohm Semiconductor	TRR01MZPF1822	-55 to 125C	Fitted	
82	1	R50	RES 4.02K OHM 0402 1% 1/16W	AVPR-0000939	Vishay Dale	CRCW04024K02FKED	Panasonic Electronic Components	ERJ-2RKF4021X	Rohm Semiconductor	TRR01MZPF4021	-55 to 125C	Fitted	
83	2	R57, R124	RES 2 OHM 0402 1% 1/16W	AVPR-0000618	Vishay Dale	CRCW04022R00FKED	Rohm Semiconductor	MCR01MZPFL2R00	Stackpole Electronics Inc	RMCF0402FT2R00	-55 to 125C	Fitted	
84	6	R71, R72, R79, R80, R100, R102	RES 240 OHM 0402 1% 1/16W	AVPR-0000820	Vishay Dale	CRCW0402240RFKED	Panasonic	ERJ-2RKF2400X	Rohm Semiconductor	TRR01MZPF2400	-55 to 125C	Fitted	
85	7	R91, R92, R93, R104, R105, R106, R107	RES 4.70K OHM 0402 1% 1/16W	AVPR-0005348	Vishay Dale	CRCW04024K70FKED	Panasonic Electronic Components	ERJ-2RKF4701X	Vishay Dale	CRCW04024K70FKEDHP	-55 to 125C	Fitted	
86	7	R109, R110, R111, R113, R119, R120, R122	RES 22.1 OHM 0402 1% 1/16W	AVPR-0000719	Vishay Dale	CRCW040222R1FKED	Panasonic Electronic Components	ERJ-2RKF22R1X	Stackpole Electronics Inc	RMCF0402FT22R1	-55 to 125C	Fitted	
87	1	R116	RES 102 OHM 0402 1% 1/16W	AVPR-0000784	Vishay Dale	CRCW0402102RFKED	Panasonic Electronic Components	ERJ-2RKF1020X	Stackpole Electronics Inc	RMCF0402FT102R	-55 to 125C	Fitted	
88	1	R118	RES 2.00K OHM 0402 1% 1/16W	AVPR-0000909	Vishay Dale	CRCW04022K00FKED	Panasonic Electronic Components	ERJ-2RKF2001X	Rohm Semiconductor	MCR01MRTF2001	-55 to 125C	Fitted	
89	5	R130, R133, R136, R138, R148	RES 649 OHM 0402 1% 1/16W	AVPR-0000862	Vishay Dale	CRCW0402649RFKED	Panasonic Electronic Components	ERJ-2RKF6490X	Rohm Semiconductor	TRR01MZPF6490	-55 to 125C	Fitted	
90	2	R132, R134	RES 1.78K OHM 0402 1% 1/16W	AVPR-0000904	Vishay Dale	CRCW04021K78FKED	Panasonic	ERJ-2RKF1781X	Bourns	CR0402-FX-1781GLF	-55 to 125C	Fitted	
91	1	R142	RES 0.0 OHM JUMP 1210 1/2W	AVPR-0002961	Vishay Dale	CRCW1210000000Z0EA	Panasonic Electronic Components	ERJ-14Y0R00U	Stackpole Electronics Inc	RMCF1210ZT0R00	-55 to 125C	Fitted	
92	1	R150	RES 249 OHM 0402 1% 1/16W	AVPR-0000822	Vishay Dale	CRCW0402249RFKED	Panasonic Electronic Components	ERJ-2RKF2490X	Stackpole Electronics Inc	RMCF0402FT249R	-55 to 125C	Fitted	
93	3	R164, R165, R166	RES 4.7 OHM 2512 5% 3W	AVPR-0005471	TE Connectivity AMP Connectors	35224R7JT					-55 to 125C	Fitted	
94	1	R167	RES 499 OHM 0402 1% 1/16W	AVPR-0000851	Vishay Dale	CRCW0402499RFKED	Panasonic Electronic Components	ERJ-2RKF4990X	Rohm Semiconductor	MCR01MRTF4990	-55 to 125C	Fitted	
95	1	RP1	RES ARRAY 8 RES 240 OHM 1606	AVPR-0005389	Rohm Semiconductor	MNR18ERAPJ240					-55 to 125C	Fitted	
96	1	RP2	RES ARRAY 8 RES 4.7K OHM 1506	AVPR-0005387	Panasonic Electronic Components	EXB-2HV472JV	Rohm Semiconductor	MNR18E0APJ472	Bourns	CAY16-4723J8LF	-55 to 125C	Fitted	
97	11	SH1, SH2, SH3, SH4, SH5, SH6, SH7, SH8, SH9,	SHUNT, ECON, PHBR 15 AU,BLACK	AVAS-0000001	Samtec	SNT-100-BK-G-H	TE Connectivity	1-382811-6			-65 to 105C	Fitted	
98	5	SW1, SW2, SW3, SW4, SW6	SWITCH TACTILE SPST-NO 0.05A 24V	AVES-0000008	TE Connectivity Alcoswitch Switches	1825910-7					-30 to 85C	Fitted	
99	1	SW5	SWITCH DIP HALF PITCH 8POS 24V	AVES-0000003	TE CONNECTIVITY / AMP	1-1571983-1					-30 to 85C	Fitted	
100	1	SW7	SWITCH SLIDE SPDT 6A 120V	AVES-0000002	C&K Components	1101M2S3CME2	C&K Components	1101M2S3CQE2			-30 to 65C	Fitted	
101	1	U1	IC SGL USB-DL UART BRIDGE 24QFN	AVID-0000038	Silicon Labs	CP2105-F01-GMR					-40 to 85C	Fitted	
102	1	U2	IC SW CURR LIMIT HI SIDE 8-MSOP	AVIA-0000028	Microchip Technology	MIC2544-1YMM					-40 to 85C	Fitted	
103	1	U3	IC DRVR/RCVR3.3V LVDS HS 14TSSOP	AVID-0000037	Fairchild Semiconductor	FIN1019MTCX					-40 to 85C	Fitted	
104	1	U4	IC REG LDO ADJ 0.5A 8TDFN	AVIA-0000027	Maxim Integrated	MAX8902BATA+T	Maxim Integrated	MAX8902BATA/V+T	Maxim Integrated	MAX8902BATA/V+	-40 to 125C	Fitted	
105	1	U5	CLOCK GENERATOR 1MHZ TO 350MHZ 24-VFQFPN	AVID-0000040	IDT	5P49V5935B521LTGI					-40 to 85C	Fitted	
106	1	U6	IC EEPROM 2KBIT 400KHZ SOT23-6, With MAC ID	AVIM-0000011	Microchip Technology	24AA025E48T-I/OT					-40 to 85C	Fitted	
107	1	U7	IC 4BIT NON-INV TRANSLTR 14TSSOP	AVID-0000012	Texas Instruments	TXS0104EPWR	Texas Instruments	TXS0104EPWRG4			-40 to 85C	Fitted	
108	1	U8	JTAGSMT2 FPGA PROGRAMMER	AVAP-0000001	Digilent, Inc.	210-251P-BOARD	Digilent	210-251-BOARD	Digilent, Inc.	210-251	-20 to 120C (Storage)	Fitted	
109	1	U10	IC REG BUCK SYNC, 5 OUTPUTS	AVIA-0000029	Infineon	IRPS5401MTRPBF					-40 to 125C	Fitted	
110	1	U11	IC REG LDO 3.3V 1.5A D2PAK	AVIA-0000025	ON Semiconductor	NCP565D2T33R4G	ON Semiconductor	NCP565D2T33G			-40 to 125C	Fitted	
111	0	C5, C29, C36, C73, C83, C117	CAP CER 0.1UF 25V 10% X5R 0201	AVPC-0000006	TDK Corporation	C0603X5R1E104K030BB	Samsung Electro-Mechanics America, Inc	CL03A104KA3NNNC			-55 to 85C	Not Fitted	
112	0	C6	CAP CER 4.7UF 25V 10% X5R 0805	AVPC-0000064	AVX Corporation	08053D475KAT2A	Kemet	C0805C475K3PACTU	Murata	GRM21BR61E475KA12L	-55 to 85C	Not Fitted	
113	0	D20	DIODE SCHOTTKY 30V 0.2A SOT23-3	AVDD-0000016	Diodes Inc.	BAT400D-7-F	Diodes Incorporated	ZHCS500TA	Diodes Incorporated	ZLLS500TA	-40 to 125C	Not Fitted	
114	0	FB4	FERRITE BEAD 600 OHM 0.3A 0402	AVPI-0000026	Murata	BLM15AG601SN1D	TDK Corporation	MMZ1005S601CT000			-55 to 125C	Not Fitted	
115	0	J11	CONN HEADR BRKWAY .100 4POS STR, DUAL ROW	AVEC-0000071	Molex Inc	0010897081					-40 to 105C	Not Fitted	
116	0	JP13	CONN HEADR BRKWAY .100 2POS STR, SINGLE ROW	AVEC-0000013	TE CONNECTIVITY / AMP	5-146280-2	Amphenol FCI	68000-102HLF	Amphenol FCI	68001-402HLF	-65 to 105C	Not Fitted	
117	0	R12, R13	RES 0.0 OHM JUMP 0402 1/16W	AVPR-0000585	Vishay Dale	CRCW0402000000Z0ED	Rohm Semiconductor	MCR01MRTJ000	Bourns	CR0402-J/-000GLF	-55 to 125C	Not Fitted	
118	0	R125	RES 10.0K OHM 0402 1% 1/16W	AVPR-0000977	Vishay Dale	CRCW040210K0FKED	Panasonic Electronic Components	ERJ-2RKF1002X	Rohm Semiconductor	MCR01MRTF1002	-55 to 125C	Not Fitted	
119	0	R126, R135, R140, R143, R145, R147	RES 0.0 OHM JUMP 1210 1/2W	AVPR-0002961	Vishay Dale	CRCW1210000000Z0EA	Panasonic Electronic Components	ERJ-14Y0R00U	Stackpole Electronics Inc	RMCF1210ZT0R00	-55 to 125C	Not Fitted	
120	0	R159	RES 121 OHM 0402 1% 1/16W	AVPR-0000791	Vishay Dale	CRCW0402121RFKED	Panasonic Electronic Components	ERJ-2RKF1210X	Rohm Semiconductor	TRR01MZPF1210	-55 to 125C	Not Fitted	
121	0	TP10, TP11, TP12, TP13	Test Point-0.040"(1.02mm), HEADER, TEST PIN	AVTT-0000001	TE CONNECTIVITY / AMP	5-146280-1	Amphenol FCI	68000-101HLF	Amphenol FCI	68001-401HLF	-65 to 105C	Not Fitted	
122	0	U9	IC REG LDO 3.3V 1.5A D2PAK	AVIA-0000035	STMicroelectronics	LD1086D2T33TR	STMicroelectronics	LD1085D2T33R			-40 to 125C	Not Fitted	
Approved					**Notes**		**Notes**		**Notes**				