tine#	Rev A3	Fitted	Name FD-KL-ASM-SUB-PCB-MAIN	Description Printed Circuit Board	Designator Qu	uantity Manufactures	Manufacturer Part Number 1	Manufacturer 2	Manufacturer Part Number 2	Manufacturer 3	Manufacturer Part Number 3
2	A.S	Fitted	114-00841-68	10 (8 + 2) Position Card Connector Secure Digital - microSD**	ji i	1 Amphenol	114-00841-68				
3		Fitted	503480-2200	Surface Mount, Right Angle Gold 22 Position FFC, FPC Connector Contacts, Top and Bottom 0.020" (0.50mm) Surface Mount, Right Angle	12	1 Molex	503480-2200	1			
4		Fitted	009155003301006-2	3 Position Spring Battery Contact Connector Surface Mount, Sight Angle	.13	1AVX	009155003301006	1			
5		Fitted	ADP2503ACPZ-R7	Right Angle Buck-Boost Switching Regulator IC Positive Adjustable 2.8V 1 Output 600mA 10-VFDFN Exposed Pad. CSP	UII	1 Analog Devio					
6		Fitted	ADPSS87ACPZ-R7	Output 600mA 10-VFDFN Exposed Pad, CSP VO Expander 18 PC 400kHz 24 LFCSP-WO (4x4)	U4	1 Analog Davio	ADPSS87ACPZ-R7				
7		Not Fitted	ATECCHOBA-MAHCZ-T	NO Expander 18 PC 400kHz 24 LFCSP-WO (4x4) Cryptographic Co-Processor with Socure Hardware-Based Key Socraps 1-Wire Interface S-Pin LIDEN T/R Crystographic Co-Processor with Socure Hardware-Based Key	Uno	OMicrochip	ATECCHORA-MAHCZ-T				
8		Fitted	ATECC608A-SSHC2-T	Storage 1-Wire Interface 8-Pin SOIC T/R	US	1 Microchip	ATECCHORA-SSHCZ-T				
0		Fitted	B08421UFD-7	LED Driver IC 1 Output Linear - PWM Dimming 350mA U- DFN2020-6	U32	1 Diodes	BCR421LFD-7				
10		Fitted	BLM18PG2215H1D B025050DQCR	FERRITE BEAD 220 OHM 0603 1LN Chargor IC Lithium Ion 10-WSON (3x2)	L5, L6 U23	2 Murata 1 Texas Instrum	BLM18PG221SH1D nth B02505000CR	Bourns Texas Instruments	MH1608-221Y BQ25050DQCT		
		Fitted	B02753092FR-G4	Buttery Battery Monitor IC Lithium Ion 15-DSBGA	U27	1 Texas Instrum		TEXAS TIME CONTENT			
13		Fitted	BZT585B15T-7	Zener Diode 15V 350nW ±2% Surface Mount SOD-523	D2, D3	2 Diodes	D029703T-7	MCC	BZTS2C1ST-TP	Diodes	8ZT585B15T-7
14 15		Fitted	CAP CER 0.01uF 50V 10% X7R 0402 CAP CER 0.013 vF 25V 10% X7R 0402	10000pF ±10% 50V Ceramic Capacitor X7R 0402 (1005 Metric) h 03%-F +10% 25V Ceramic Capacitor X7R 0402 (1005 Metric)	C2, C34	2 Samsung 1 Sanon	CL05B103KESN/N/NC CC0440WG9/CP99R333	Yageo	CC0402KRK7R988103	Murata Murata	G9M155R71H103KA88D G7M155R71F333KA65D
16		Fitted	CAP CER 0.047uF 10V 10% X7R 0402	0.047µF ±10% 10V Ceramic Capacitor X7R 0402 (1005 Metric)	CS3, C84, C88 C3, C5, C6, C7,	3 Murata	G8M15SR71A473KA01D	Yageo	CC0402KRK7RHBB473	KEMET	C0402C473K8RACTU
17		Fitted	CAP CERO. THE 16W 10W X7R 0402	In TyF ±10% 18V Curamic Capacitor XXII CMID (1905 Metric)	C3, C5, O6, C7, C3, C9, C10, C11, C12, C14, C15, C18, C20, C21, C22, C23, C25, C28, C29, C33, C37, C38, C30, C43, C48, C52, C56, O60, C61, O62, C65, C66, C67, C68, C69, C72, C73, C76, C77, C79, C60, C62, C67,	43Murata	GCM155R71C10KKA55D	TDK	C100SK/R1C104K056BC	KEMET	00402C104K4RACAUTO
17		Not Fitted	CAP CER 0.1uF 16V 10% X7R 0402	0.1pF±10% 16V Ceramic Capacitor X7R 0402 (1005 Metric)	C26 C44, C45, C59,	OMurata	GCM155R71C104KA55D	TDK	C1005X7R1C104K0508C	KEMET	C0402C104K4RACAUTO
18		Fitted	CAP CER 1uF 25V 10% XSR 0402	1uF ±10% 25V Ceramic Capacitor XSR 0402 (1005 Metric)	C44, C45, C59, C63	4 fageo	000402KRXSR88B105	Taiyo Yudan	UMK105CBJ105KV-F	Samsung	CL05A105KA5NQNC
18		Not Fitted Fitted	CAP CER 1uF 25V 10% XSR 0402 CAP CER 1.5pF 50V C0G 0402	TuF ±10% 25V Ceramic Capacitor XSR 0402 (1005 Metric) 1.5pF ±0.25pF 50V Ceramic Capacitor COG, NPO 0402 (1005	C49, C55	O fageo	0004030035R888105 04025A1R5CAT2A	Taiyo Yudan KEMET	UMK105CBJ105KV-F CD400C159C5GACTU	Samsung	CLOSA 105KASNONC GIM1555C1H1R5CB01D
10		Not Fitted	CAP CER 1.5pF 50V C0G 0402	Matric) 1. Spf ±0.2Spf SOV Ceramic Capacitor COG, NPO 0402 (1005) Matrick	OS4	OKuncera AVX	DKQSA1RSCAT2A	KEMET	COMMICTORESGACTU	Murata	GIM1555C1H1R5CB01D
-	-				C16, C35, C36,			_			
20		Fitted	CAP CER 4.7UF 10V 20% XSR 0402	4.7µF ±20% 10V Ceramic Capacitor XSR 0402 (1005 Metric)	C16, C35, C36, C70, C71, C74, C75, C81, C89	9 Samsung	CLOSA47SMPSNRNC	Murata	ZRB15XR61A475ME01D	TOK	C1005X5R1A475M050BC
21		Fitted Not Fitted	CAP CER 10LF 6.3V 20% XSR 0603 CAP CER 10LF 10V 20% XSR 0402	10µF ±20% 6.3V Coramic Capacitor XSR 0603 (1608 Mistric) 10µF ±20% 10V Coramic Capacitor XSR 0402 (1005 Mistric)	C30, C31, C32	3 Murata 0 Samoung	CPM188R±CF106ME47D CL05A106MP8NUE8	Kyocera AVX	06036D106MAT2A	Yagoo	CC0603MRXSRS88106
23		Not Fitted Fitted Not Fitted	CAP CER 104F 10V 20% XSR 0402 CAP CER 224F 6.3V 20% XSR 0603	Titur 120% TOV Ceramic Capacitor XSR 0402 (1005 Metric) 22µF 120% 6.3V Ceramic Capacitor XSR 0603 (1608 Metric)	C19, C78	2 Samsung	CLIDATIONNI SNUBS CLIDAZZHANOSNI SNE CLIDAZZHANOSNI SNE				
24		Not Fitted Fitted	CAP CER 22sF 6.3V 20% XSR 0603 CAP CER 220pF 50V 5% C0G 0402	22µF ±20% 6.3V Ceramic Capacitor X5R 0603 (1608 Metric) 220pF ±5% SOV Ceramic Capacitor COG, NPO 0402 (1005 Metric)	C24, C27 C42, C47	0 Samsung 2 Samsung	O.10A226MOBNISNE O.05C221JBSNNNC	Kyocera AVX	04025A2211AT2A	Murata	GCM1555C1H221JA16D
25	-	Fitted	CAP CER 1000uF 1000V 10% X7R 0805	1000pF ±10% 1000V (1kV) Ceramic Capacitor X7R 0805 (2012	C17. C57	2 KEMET	COBOSC102KDRACTU	f			
26		Fitted	CAP CER 1500pF 50V 10% X7R 0402	Metric) 1500pF ±10% 50V Ceramic Capacitor XXR 0402 (1005 Metric)	C41, C46, C51	3 Murata	GCM155R71H152KA37D			<u> </u>	
27		Fitted	CAP CER 2.2uF 6.3V 10% XSR 0402	2 2µF ±10% 6.3V Ceramic Capacitor XSR 0402 (1005 Metric)	C4, C13, C40, C50, C58, C83	6KEMET	00400C225K9PACTU	Samsung	CLOSA225KQ5N5NC	Kyocera AVX	0400±0225KAT2A
28		Fitted	CAT24034C4ATR	EEPROM Memory IC 48tb (512 x 8) PC 400kHz 900ns 4-WLCSP	us	ON Semiconstarts	CAT24CD4C4ATR				
29		Fitted	CSTNE8M00GS60000R0	BMHz Coramic Resonator Built in Capacitor 33pF ±0.2% 40 Ohms =40°C = 85°C Surface Mount	X2	1 Murata	CSTNE8M00G550000R0	Abracon	AWSCR-8.00CELB-C10-T3	ECS International	ECS-CTE-8:00-10-TR
30		Fitted	D5V0M1U299-7	12V Clamp 9A (8/20µs) lipp Tvs Diode Surface Mount SOD-923	D5, D6	2 Diodes	DSV0M1U2S9-7				
31		Fitted	DMP2104.P-7	P-Channel 20 V 1.5A (Ta) 500mW (Ta) Surface Mount 3- DFN1411 (1.4x1.1)	Q1, Q2	2 Diodes	DMP2104LP-7				
32		Fitted	ECS-327-6-12-TR	Parallel - Fundamental Quartz Crystal, 0.032768MHz Nom 16 Position FFC, FPC Connector Contacts, Top and Bottom	X1	1 ECS Internatio	tal ECS-327-6-12-C-TR	ECS International	ECS327-6-12-TR		
33		Not Fitted	FH34SRJ-16S-0.5SH(50)	16 Position HC, HPC Connector Contacts, Top and Bottom 0.000" (0.50mm) Surface Mount, Right Angle Amber 605nm LED Indication - Discrete 1.9V 0603 (1608	и	OHirose	FH34SRJ-16S-0.55H(50)	L			ļ
34		Fitted	IN-S63ATSA	Metric) Metric) Metric) Metric 1976 1	LED9	1 Inolux	IN-S63ATSA				
34		Not Fitted	IN-S63ATSA	Amber 605nm LED Indication - Discrete 1.97 0603 (1608 Metric) White - LED Indication - Discrete 37 0603 (1608 Metric)	LEDS .	Olinokus	IN-S63ATSA	<u> </u>			
96		Fitted	IN-363A15UW KB DELPS2.DI-THVG-218L-2555	White - LED Indication - Discrete 3V 0603 (1608 Metric) Blue 466nm LED Indication - Discrete 2:8V 2:SMD 0603	LEDIO LEDIO	1 Osram Opto	IN-363A15UW KB DELPS2 DI-THVG-288L-2555				
37		Fitted	KRL3216T4A-M-R010-F-T1	Fixed Resistor, Metal Foil, 1W, 0.01ohm, 1% +/-Tol,	000	1 Susumu	KRL3216F4A-M-R010-F-T1				
	-	Fitted	UMV981TLX/NOP8	Fixed Rosister, Metal Foll, TW, 0.01ohm, 1% «/-Tol., 35ppm/Cel, Surface Mount, 1206 General Purpose Amplifier 1 Circuit Rail-to-Rail 6-058GA	U16, U18	7 National	LM/981TLX/NOP8	 		 	
39		Fitted	LTST-C191KRKT	(15(1.3)	LED1	Semiconducti 1 Vishay Lite-O		-			
40		Fitted	MAKK2016T1R0M	Red 63 from LED Indication - Discrete 2V 0603 (1608 Metric) 1 µH Shielded Wirewound Inductor 2:2A 75mOhm Max 0806 (2016 Metric)	12	1 Talyo Yuden	MAKK2016T1R0M				
41		Fitted	MAKK2520H1R5M	 JaH Shielded Wirewound Inductor 2.4 A 78mOhm Max 1008 (2520 Metric) 	L1	1 Taiyo Yuden	MAKK2520H1R5M				
42		Fitted	MCP1501T-2SE/RW	Series Voltage Reference IC 2:5V ±0.1% 8:WDFN (2x2) 22µH Shielded Multilayer Inductor 150mA 2:40hm 0603 (1608	U06	1 Microchip	MCP1501T-25E/RW				
43		Fitted	MLZ1608M220WT000	Matric)	L4	1 TDK	ML21608M220W7000				
45		Fitted	NCP15WB473F03RC NTCG103JF103FT1	NTC Thermister 47k 0402 (1005 Metric) NTC Thermister 10k 0402 (1005 Metric)	R86 R85	1 Murata 1 TDK	NCP15WB473F03RC NTCG103F103FT1				
45 46		Fitted	NCP19WB473F03RC NTCG193F103FT1 NTK3043NT1G	MIC Thormister 4Tk 0402 (1005 Metric) MIC Thormister 10k 0402 (1005 Metric) NC-Channel 20V 210rnA (Ta) 310mW (Ta) Surface Mount 50T- 723	R86 R85 U8, U14, U22, U28	1 Murata 1 TDK 4 ON 5 emiconducti	NCP15WB473F03RC NTCG103IF103FT1 NTK3043NT1G				
45 46 46		Not Fitted	NTK3043NT1G	723 N-Channel 20V 210mA (Ta) 310mW (Ta) Surface Mount 50T- 723	U06	1 Murata 1 IDK 4 ON Semiconducti 0 ON Semiconducti	NTK3043NT1G				
45 46 46 47				723	U08 U06 U09	1 Morata 1 IDK ON 5 Semiconducti ON 5 Semiconducti Omnifysion 1 Technologies		OmniVision Technologies	OVM/1690-R20A		
45 46 46 47 48		Not Fitted	NTK3043NT1G	723 N-Channel 20V 210mA (Ta) 310mW (Ta) Surface Mount 50T- 723	U06	Merata DIX ON Semiconducto ON Semiconducto Onervision Technologies 18 ITT Cs.K	NTK3043NT1G	OrrniVision Technologies	OVMO690 R2DA		
45 46 46 47 48 48		Not Fitted Fitted	NTKSDASNTIG OVANISSO REMA PTSS30CANSSSMITH FS	123 **Channel 200 270m4 (Tig 310m9/ (Tig) Surface Mount SOT- 221 **SPSSOR CAMERA CMOS 202AMERALISE **Taction South Section South South Section Sec	U29 SW1, SW2, SW3, SW4, SW5, SW6, SW7, SW8, SW9, SW10, SW11, SW12, SW13, SW14, SW13, SW14, SW15, SW16,	3 Murata 3 TDK ON ON Semionordacto One Semionordacto OnesPYsicon Tochnologies 1881TT C&X Mesperia ON Semionordacto Solutionordacto Tochnologies Solutionordacto Solutionordacto Solutionordacto Solutionordacto	NTKSOKSNITIG OVANIBIO-RYAA PTSSSOGNI995SMITRES	OreniVision Technologies Nexperta			
46 46 46 47 48 48 50		Not Fitted Fitted Fitted	NTICSOSNITIG OVANISIO RIDAA PTSSSOGAISSSSATTILES FUSISSAGAIS	200 State of State (14) State (14) State in Moute 505. \$10000 CAMPA CASO 2004 (14) State in Moute 505. \$10000 CAMPA CASO 2004 SPACE Tacillo Saists 9757 NO Top Actuated Surface Mount \$151,0000 3 by No Of No	U28 U29 SW1, SW2, SW3, SW4, SW5, SW6, SW7, SW8, SW11, SW12, SW11, SW12, SW13, SW14, SW15, SW16, SW15, SW16, SW15, SW16, SW15, SW16, SW15, SW16, SW15, SW16, SW17, SW18, SW17, SW18, U6, U7		NTISDESNITIG OWNORDORIESA PTSSSOCNUSSSMITISES PUSESNARA	OrnsWision Technologies Mosperia			
45 46 46 47 47 48 48 50 51		Not Fitted Fitted Fitted Fitted Fitted	NTICKOANTYG OVANDRO RISKA PYSSSOGAISSSMITHEFS PUSSSAGAISSSMITHEFS RISKSSAGAIS RISKSSAGAIS	200 — Service (1) (1) (1000) (1) (1) (1000) (1) (1) (1000) (1) (1000) (1) (1000) (1) (1000) (1) (1000) (100	U29 U29 U29 SW1, SW2, SW3, SW4, SW5, SW6, SW7, SW8, SW7, SW10, SW11, SW12, SW11, SW12, SW13, SW14, SW15, SW16, SW17, SW16, SW1		NTICIOENTEG OVACINE REPA PTSSSCCAMPSSSATTREFS PUSENABAZ REDSSSAGTIG	OmniVision Technologies Neeperla Vishay	PUSB3FR42		
45 46 46 47 48 48 49 50 51 51		Not Fitted Fitted Fitted Fitted Fitted Fitted Fitted	NTICHANITIC OWANING RINA PTSSIGNASSIMILES PTSSIGNASSIMILES PTSSIGNASSIMILES RINGSHARE RINGSHARE RINGSHARE RINGSHARE RINGSHARE RINGSHARE RINGSHARE RINGSHARE	200 August 200 y Transis (Eq. Surfess Manuel SOT 200 August 200 Au	U28 U25 U29 SW1, SW2, SW3, SW4, SW5, SW6, SW7, SW8, SW7, SW8, SW7, SW10, SW7, SW10, SW11, SW12, SW13, SW16, SW15, SW16, SW17, SW16, SW17, SW16 SW17, SW16 SW17, SW18 U6, U7	2 Nexperia 2 ON 2 Semiconducta 5 Stackpole Bectronics 5 Stackpole 9 Dectronics 5 Stackpole	NTICIOSINTEG OVACINE REPA PTSSSOCINESSSMITHEES PUSESABAZ REPSISMOTEG RMATGAGGZTERIO		PUSBSFR42 CRCW6603000025TA	Viohay	DICWH-920000000ED
45 46 46 47 48 48 49 50 51 51		Net Fitted Fitted Fitted Fitted Fitted Fitted Fitted Fitted Net Fitted	NITEDENTIFIC OMNOMO ERAA PTSSSGARSSSATTELES FASSMARS	200 200 200 200 200 200 200 200 200 200	U29 U29 U29 SW1, SW2, SW3, SW4, SW5, SW6, SW7, SW8, SW7, SW10, SW11, SW12, SW11, SW12, SW13, SW14, SW15, SW16, SW17, SW16, SW1	2 Nevperia ON Semiconduct Stackpole Bectronics Stackpole Bectronics Stackpole Bectronics Stackpole	NTICIOENTEG OVACIDIO REPAA PTSCSOCAUSSSMITISES PLAGISABAZ BBSSSAGTEG BMATGAGGATTIGGO BMATGAGGATTIGGO	Vishay	PUSBSFR42 CSC/W0603000025TA CSC/W0603000025TA	Vohay	SICHMADDODDRED DOCKMADDODDRED
45 46 46 47 48 48 49 50 51 51 51 52 52		Not Fitted	NTEDENTIC OMNINO ERNA PTSSSCAMPSOMMES FASSINGE FASSIN	200 April 200 Ap	U28 U29 U29 SW1, SW2, SW2, SW4, SW5, SW6, SW7, SW8, SW6, SW10, SW11, SW2, SW6, SW11, SW7, SW8, SW7, SW8, SW7, SW8, SW7, SW11,	2 Nexperia ON 2 semiconduct Stackpole Bectronics Stackpole Bectronics Stackpole Bectronics	NTEGORISTI G CONCROS REPA PTSSSCCANSSONTINETS PASSINANC RESTSSENT G REATINGSTREED REATINGSTREED REATINGSTREED REATINGSTREED REATINGSTREED	Vishay Yageo	PLSB3F842 CSC:W0603000025TA CSC:W0603000025TA RCD40208-07669		
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46 46 46 47 47 55 55 55 55 55 55 55 55 55 55 55 55 55		Not Fitted	SECREMING COMMISSION PERSONNELLS PERSONNEL	200. 200. 200. 200. 200. 200. 200. 200.	U29 SW1, SW2, SW3, SW4, SW4, SW4, SW4, SW4, SW4, SW7, SW8, SW7, SW8, SW7, SW7, SW7, SW7, SW7, SW7, SW7, SW7	2 Nassperia 2 Na 3 Na 4 Semiconduct Stackpole Blacteroria Stackpole Blacteroria Stackpole Blacteroria Stackpole Blacteroria Stackpole Glacteroria 2 Vishay Dale 2 KDA Speelr Stackpole Sta	NECHONITIS OF THE STATE OF THE	Vishay Yageo Yageo Yageo Yageo	PURSURAL CICCHONODIODICITIA CICCHONODI	Vishay Panasonic	CRCW0402000020ED ERA-2AED102X
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46 46 46 47 47 48 48 48 49 55 55 55 55 55 57 57 58 58 58 58 58 58 58 58 58 58 58 58 58		Not Fitted	STEACHTHE OWNERS THAN PROSOCIOENTHIES PROSOCIO	200 April 1997 -	U28 U25 SW7, SW2, SW4, SW4, SW6, SW6, SW6, SW6, SW6, SW6, SW6, SW6, SW7, SW7, SW7, SW7, SW7, SW7, SW7, SW7	3 Discaporia 30 c 30 c 50 c 5	NITED CRATTED OPACHINE STRAA PTSS.COCKRESSATELYS	Vishiy Yageo Yageo Yageo Yageo Yageo Yageo Yageo	PLEASURED SECONDISTRATED STATE SECONDISTRATED SECON	Vishay Panisonic Panisonic	CRCWP42200020ED ERA-2AED102X ERA-2AED102X
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