BOM SBC-MCM8PV2-CQMD4N32

Part Name	Quantity	Refs	MFG Parts
Assembled PCB, MCM-IMX8PV2-C1600QM-D4-N32-TIC	1	U1	Compulab MCM-IMX8PV2-C1600QM-D4-N32-TIC, Rev 1.0
Battery holder for 16mm cell battery, H=4mm max, SMT	1	BH1	KST MY-1632-02-R {KST-1618} RENATA SMTM1632.TR
Battery, Lithium, Cell 16x3.2mm, 3V, 120mAh, 1632, -30C+80C	1	BT1	Any_Mfg 16x3.2mm, 3V, 120mAh, 1632, -30C+80C Any_Mfg CR1632 {-20+70C, 120-140mAh} JL_World (Sener) SBR1632 Murata CR1632 Panasonic_batteries BR-1632/DBN RENATA CR1632
Cap., 100nF, 10V, X7R/X5R, 10%, 0402	91	C127,C14,C141,C143,C144,C146,C148,C15,C152,C153,C158, C16,C161,C168,C169,C17,C170,C171,C174,C18,C189,C192,C193, C195,C197,C200,C204,C205,C208,C209,C21,C210,C211,C23,C231,C232,C24,C249,C255,C258,C260,C268,C269,C27,C270,C272,C274,C276, C277,C35,C36,C37,C371,C373,C38,C380,C382,C383,C385, C386,C387,C388,C389,C390,C391,C393,C396,C397,C398,C399, C400,C51,C55,C59,C62,C63,C64,C65,C67,C68,C70,C71,C73,C74, C75,C76,C77,C78,C79,C84,C86	Epcos B37621K8104K060 Fenghua 0402B104K[100|160]NT Fenghua 0402B104K100NT Fenghua 0402B104K160NT Frontier Electronics 0402G[100|160]X104KCT Kemet (Yageo) C0402C104K8PAC(7867) Kemet (Yageo) C0402C104K8PAC7867 Kemet (Yageo) C0402C104K8RAC(7867) Murata GRM155R61A104KA01D Murata GRM155R61C104KA88D Murata GRM155R[6|7]1A104KA01D Murata GRM155R71A104KA01D Murata GRP155R61A104KA01E SAMSUNG_ELECTRO CL05A104KO5NNNC SAMSUNG_ELECTRO CL05A104K[O|P]5NNN[C|E] SAMSUNG_ELECTRO CL05A104KP5NNNC SAMSUNG_ELECTRO CL05A104KP5NNNC SAMSUNG_ELECTRO CL05B104KO5NNNC SAMSUNG_ELECTRO CL05B104K[O|P]5NNN[C|E] SAMSUNG_ELECTRO CL05B104KP5NNNC SAMSUNG_ELECTRO CL05B104KP5NNND SAMSUNG_ELECTRO CL05B104KPNC Taiyo_yuden LMK105BJ104KV-F TDK C1005JB1A104KT TDK C1005X7R1C104K050BC Walsin 0402B104K100CT Walsin 0402[B|X]104K100CT Walsin 0402X104K100CT Yageo (Brightking) 2238 247 156 49 Yageo (Brightking) CC0402KRX[5|7]R6BB104 Yageo (Brightking) CC0402KRX[5|7]R6BB104) Yageo (Brightking) CC0402KRX5R6BB104 Yageo (Brightking) CC0402KRX7R6BB104
Cap., 100pF, 0402, NPO, 50V, 5% or 1%	1	C54	Fenghua 0402CG101F500NT Fenghua 0402CG101[F|J]500NT Fenghua 0402CG101J500NT Kemet (Yageo) C0402C101F5GAC Murata GRM1555C1H101JA01D Murata GRP1555C1H101JD01E SAMSUNG_ELECTRO CL05C101JB5NNNC SAMSUNG_ELECTRO CL05C101JBNC SAMSUNG_ELECTRO CL05C101[J|F]BNC VISHAY VJ0402A101FXAA[T|C] Walsin 0402N101J500[C|L]T Walsin 0402N101J500CT Yageo (Brightking) CC0402JRNPO9BN101
Cap., 100uF, 6.3V, X5R, 20%, 1206, H=1.6mm	6	C129,C130,C131,C136,C137,C145	Fenghua 1206X107M6R3NT Kemet (Yageo) C1206C107[K|M]9PAC7210 Murata GRM31CR60J107ME39L SAMSUNG_ELECTRO CL31A107MQHNNN[C|E] SAMSUNG_ELECTRO CL31A107MQHNNNE Taiyo_yuden JMK316(A)BJ107ML-L Taiyo_yuden JMK316ABJ107ML-L Taiyo_yuden JMK316(A)BJ107ML-T Taiyo_yuden JMK316ABJ107ML-T Taiyo_yuden JMK316BJ107ML-T TDK C3216X5R0J107M160AB TDK C3216X5R0J107MT Thunder 1206X107M6R3CG Thunder 1206X107M6R3CT Wurth 885012108005 Yageo (Brightking) CC1206MKX5R5BB107
Cap., 10nF, 25V, X7R, 10%, 0402	2	C53,C82	CAL-CHIP GMC04X7R103K[25|50]NT(LF) CAL-CHIP GMC04X7R103K50NT Epcos B37921K9103K60 Fenghua 0402B103K[250|500]NT Fenghua 0402B103K250NT Fenghua 0402B103K500NT Hitano 0402B103K[250|500]NU Kemet (Yageo) C0402C103K3RAC Murata GRM155R71E103KA01D Murata GRP155R71E103KA01[D|E] PHYCOMP 2238 917 156 36 SAMSUNG_ELECTRO CL05B103KANC SAMSUNG_ELECTRO CL05B103KB5NNNC Taiyo_yuden TMK105B7103KV-F Taiyo_yuden TMK105BJ103KV-F TDK C1005JB1E103KT VISHAY VJ0402Y103KXJAT Walsin 0402B103K250CT Yageo (Brightking) CC0402KRX7R9BB103
Cap., 10uF, 10V, X5R, 20%, 0402	11	C343,C347,C348,C349,C350,C351,C352,C381,C394,C403,C404	CAL-CHIP GMC04X5R106M10NT EYANG C0402X5R106M100NTC Fenghua 0402X106M100NT SAMSUNG_ELECTRO CL05A106MP5NUNC SAMSUNG_ELECTRO CL05A106MP5N[U|R][B8|NC] Walsin 0402X106M100CT Yageo (Brightking) CC0402MRX5R6BB106
Cap., 10uF, 16V, X5R/X7R, 20%, 0603	3	C52,C56,C85	CAPAX 0603B106[K|M]160SNT Fenghua 0603X106[K|M]160NT Fenghua 0603X106M160NT Murata 1GRM188C81C106MA73D SAMSUNG_ELECTRO CL10A106MO8NQNC Taiyo_yuden EMK107BBJ106MA-T Taiyo_yuden EMK107BJ106MA-T TDK C1608X5R1C106M080AB Thunder 0603X106M160CT
Cap., 10uF, 25V, X5R/X7R, 20%, 0603	1	C245	Murata GRM188R61E106MA73D SAMSUNG_ELECTRO CL10A106MA8NRNC TDK C1608X5R1E106M080AC
Cap., 10uF, 50V, X7R, 20%, 1206	2	C162,C163	CAL-CHIP GMC31X7R106K50NT Fenghua 1206B106K500NT SAMSUNG_ELECTRO CL31B106KBHNNNE TDK C3216X7R1H106K160AC

Cap., 10uF, 6.3V, X5R/X7R, 20%, 0603	11	C194,C201,C223,C225,C230,C237,C238,C242,C392,C69,C72	Kemet (Yageo) C0603C106[K|M]9PAC Murata GRM188R60J106ME47D SAMSUNG_ELECTRO CL10A106[K|M]Q8NNNC SAMSUNG_ELECTRO CL10A106KQ8NNNC SAMSUNG_ELECTRO CL10A106MQ8NNNC Taiyo_yuden JMK107ABJ106KA-T Taiyo_yuden JMK107(A)BJ106[K|M]A-T Taiyo_yuden JMK107ABJ106MA-T Taiyo_yuden JMK107BJ106MA-T TDK C1608X5R0J106[K|M]T Walsin 0603X106[K|M]6R3CT Yageo (Brightking) CC0603MRX5R5BB106
Cap., 10uF, =>63V, X7R, 20%, 1210	8	C177,C178,C186,C187,C198,C199,C378,C379	Murata GRM32ER71J106KA12L Murata GRM32ER71J106[K|M]A12L Murata GRM32ER71J106MA12L SAMSUNG_ELECTRO CL32B106KMVNNWE
Cap., 15pF, 50V, NPO, 5%, 0402	2	C234,C252	AVX 04025A150JAT2A Epcos B37920K5150J60 Fenghua 0402CG150J500NT Kemet (Yageo) C0402C150J5GAC Murata GRM1555C1H150JA01D Murata GRP15X5C1H150JD11E SAMSUNG_ELECTRO CL05C150JB[3|5]NNNC SAMSUNG_ELECTRO CL05C150JB3NNNC SAMSUNG_ELECTRO CL05C150JB5NNNC TDK C1005C0G1H150JT VISHAY VJ0402A150JXAAC Walsin 0402N150J500[C|L]T Walsin 0402N150J500CT Walsin 0402N150J500LT
Cap., 18pF, 50V, NPO, 5%, 0402	4	C401,C402,C81,C83	CAL-CHIP GMC04CG180J50NT CAL-CHIP GMC04CG180J50NT(LF) Fenghua 0402CG180J500NT Kemet (Yageo) C0402C180[J|F]5GAC Murata GRM1555C1H180JA01D SAMSUNG_ELECTRO CL05C180JB5NNNC VISHAY VJ0402A180[F|J]XAA[T|C] Walsin 0402N180J500[C|L]T Walsin 0402N180J500CT Walsin 0402N180J500LT
Cap., 1uF, 16V, X5R/X7R, 10%, 0402	5	C176,C182,C185,C257,C261	CAL-CHIP GMC04X5R105K16NT(LF) Fenghua 0402X105K160NT SAMSUNG_ELECTRO CL05A105KO5NNNC Taiyo_yuden EMK105BJ105KV-F TDK C1005X5R1C105K050BC Walsin 0402[B|X]105K[160|250]CT
Cap., 1uF, 50V, X5R/X7R, 10%, 0603	3	C22,C278,C57	Fenghua 0603B105K500NT Murata GRM188R61H105KAALD SAMSUNG_ELECTRO CL10A105KB8NNNC Taiyo_yuden UMK107BJ105KA-T TDK C1608X5R1H105K080AB Yageo (Brightking) CC0603KRX5R9BB105
Cap., 1uF, 6.3V, X5R/X7R, 20%, 0402	10	C1,C140,C142,C149,C202,C224,C243,C244,C359,C405	CAL-CHIP GMC04X5R105M6R3NT Fenghua 0402X105K6R3NT Fenghua 0402X105[K|M]6R3NT Johanson_Dielectrics 100R07X105KV4T Murata GMD155R60J105KE11D Murata GRM155R60J105KE19D Panasonic_Industrial ECJ0E50J105[M|K] SAMSUNG_ELECTRO CL05A105KQ5NNNC SAMSUNG_ELECTRO CL05A105[M|K]Q5NNNC SAMSUNG_ELECTRO CL05A105MQ5NNNC TDK C1005X5R0J105[K|M]T TDK C1005X5R0J105KT Yageo (Brightking) CC0402KRX5R5BB105
Cap., 220nF, 100V, X7R/X7S, 20%, 0603	1	C207	CAPAX 0603X224K101SNT Taiyo_yuden HMK107C7224KAHTE Taiyo_yuden MBASH168SC7224KTCA01
Cap., 220nF, 16V, X7R/X5R, 0402, 10%	1	C58	Murata GRM155R71C224KA12D SAMSUNG_ELECTRO CL05B224KO5NNNC Taiyo_yuden EMK105BJ224KV-F TDK C1005X5R1C224K050BB TDK C1005X5R1C224KT TDK CGA2B3X7R1E224K050BE Thunder 0402X224K160CT Walsin 0402B224K160CT Walsin 0402X224K6R3CT Wurth 885012105017 Yageo (Brightking) CC0402KRX5R[7|8]BB224 Yageo (Brightking) CC0402KRX5R7BB224
Cap., 220pF, 50V, NPO, 0603, 10%	2	C235,C264	Kemet (Yageo) C0603C221[G|J|K]5GACTU Kemet (Yageo) C0603C221K5GAC(7867) Kemet (Yageo) C0603C221K5GAC7867 SAMSUNG_ELECTRO CL10C221JB8NFNC SAMSUNG_ELECTRO CL10C221JB8NNNC SAMSUNG_ELECTRO CL10C221[J|K]B8N[F|N]NC VISHAY VJ0603A221[G|J|K]XAPW1BC VISHAY VJ0603A221KXAAC Walsin 0603N221J500CT Walsin 0603N221[J|K]500CT Yageo (Brightking) CC0603JRNPO9BN221
Cap., 2.2nF, 50V, X7R, 10%, 0402	4	C172,C180,C191,C206	AVX 04025C222KAT2A CAL-CHIP GMC04X7R222K50NT Epcos B37921K0222K60 Fenghua 0402B222K500NT Kemet (Yageo) C0402C222K5RAC Murata GRM155R71H222KA01D Murata GRP155R71H222KA01E SAMSUNG_ELECTRO CL05B222KB5NNNC TDK C1005X7R1H222K050BA TDK C1005X7R1H222KT VISHAY VJ0402Y222KXAAT Walsin 0402B222K500CT Yageo (Brightking) CC0402KRX7R9BB222
Cap., 2.2uF, 10V, X5R, 10%, 0402	3	C239,C254,C262	CAL-CHIP GMC04X5R225K10NT Murata GRT155R61A225KE01D SAMSUNG_ELECTRO CL05A225KP5NNNC SAMSUNG_ELECTRO CL05A225KP5N[N|S]NC SAMSUNG_ELECTRO CL05A225KP5NSNC TDK C1005X5R1A225K050BC Thunder 0402X225K100CT Walsin 0402X225K100CT Yageo (Brightking) CC0402KRX5R6BB225
Cap., 22uF, 25V, X5R/X7R, 20%, 0805	1	C253	Murata GRM21BR61E226ME44L SAMSUNG_ELECTRO CL21A226MAQNNNE SAMSUNG_ELECTRO CL21A226MA[Q|Y]NNNE SAMSUNG_ELECTRO CL21A226MAYNNNE TDK C2012X5R1E226M125AC Yageo (Brightking) CC0805MKX5R8BB226
Cap., 22uF, 6.3V, X5R/X6S, 20%, 0603	10	C164,C165,C166,C167,C175,C179,C181,C188,C190,C203	Murata GRM188R60J226MEA0D Murata GRM188R60J226MEA0[D|J] Murata GRM188R60J226MEA0J SAMSUNG_ELECTRO CL10A226MQ8NRNC SAMSUNG_ELECTRO CL10A226MQ8NRN[C|E] SAMSUNG_ELECTRO CL10A226MQ8NRNE TDK C1608X5R0J226M080AC
Cap., 4.7uF, 10V, 20%, X5R, 0402	18	C138,C139,C233,C240,C241,C247,C248,C251,C256,C259,C265, C266,C267,C271,C273,C275,C384,C395	Murata GRM155R61A475MEAAD SAMSUNG_ELECTRO CL05A475KP5NRNC TDK C1005X5R1A475K050BC Yageo (Brightking) CC0402KRX5R6BB475
Conn., Audio Jack, Stereo, 3.5mm, with switch	2	J5,J6	SC_Precision SCJ305P00DG0BP9G SC_Precision SCJ305P00DS0B00G

Conn., DC Jack, 5.5/2.5mm ext/int Dia., TH, 20V/10A	1	J1	Contact Technology DC-081HS(-2.5) Contact Technology DC-081HS-2.5 CUI PJ-082BH Sinotech SJDC021-L Sinotech SJDC021-TR Technik TDC-081HS {TDC-081HS-2.5MM-PA6T-1AG-1} TTAF DC-101 {Tape and Reel}
Conn., Edge, 50pin, Vert, 1.27mm pitch, SMT	1	J4	Any_Mfg Edge, 50pin, Vert, 1.27mm pitch, SMT EDAC 302-050-399-205 EDAC 802-050-399-205
Conn., HDMI-A, Rec, RA, th pins	1	P22	Astron 369FA19-0N008T-H Astron 369FA19-0N008T-[H|R] Astron 369FA19-0N008T-R CZT A111912-Q-01-R CZT A111926-B-01-R CZT HLHDMIAFCG1NTRA Neltron 5090R-19-SMFC[2|4]-TR Neltron 5090R-19-SMFC4-TR
Conn., Header, 1x2, 100MIL, TH, JP2, 3mm tail, 6mm mating length	6	E1,E2,E3,E4,E5,E6	Archtech_Electronics TD-02ST Astron 27-010[3|6]H-102-1G-R CVILux CH31-02-2-V-1-00 Harwin M20-9770206 Jih_Vei_Electronics 21B1164-02S10-01G-6/3 Jih_Vei_Electronics 21B12564-02S10B-01G-6/3*P Keltron-KCC PH1-02S-G Major_League_Electronics TSHS-102-S-08-A-T MAXCONN 210-V-B-02-A-1 Neltron 2211S-02G-1050H15 Oupiin 2011-1X2GS Wieson 2100-1*2ST1
Conn., Header, 2x10, 100MIL, SMT, DR20, 6mm mating length, W/o posts	2	P12,P14	Archtech_Electronics TDE-20MG FCI (AMPHENOL) 54202-T08-20P FCI (AMPHENOL) 95278-401B20 Harwin M20-8861022 Jih_Vei_Electronics 21N22564-20M00B-01G-6-C*R Jih_Vei_Electronics N2264-20M15-01TG {ROHS} Major_League_Electronics TSHSM-110-D-06-T-V-P Oupiin 2015-2X10TD/L2 Samtec TSM-110-01-T-DV-M
Conn., Header, 2x 4, 100MIL, SMT, 6mm mating length	7	P10,P13,P15,P16,P17,P19,P20	AMPHENOL (FCI) 10129383-908001ALF Archtech_Electronics TDE-08MG FCI (AMPHENOL) 54202-T08-08P FCI (AMPHENOL) 95278-401B08 Harwin M20-8860422 Jih_Vei_Electronics 21N22564-08M10B01G6/1.5-C Jih_Vei_Electronics 21N22564-08M10B01G6/1.5-C*R {OLD PN} Jih_Vei_Electronics 21N22564-08M10B-01G-6/4.4-C*R {NEW PN} Jih_Vei_Electronics N2264-08M15-01T Major_League_Electronics TSHSM-104-D-06-T-V-P Oupiin 2015-2X4G00D+tape&Reel+cap Oupiin 2015-2X4TD/L2 Samtec TSM-104-01-T-DV-M
Conn., Header, 2x 5, 100MIL, SMT, DR10, 6mm mating length	2	P11,P18	AMP (TE) 146130-4 Archtech_Electronics TDE-10MG CVILux CH81102M10[1|2|3]-0P FCI (AMPHENOL) 54202-T08-10P FCI (AMPHENOL) 71276-210HT FCI (AMPHENOL) 95278-401B10 Harwin M20-8860522 Jih_Vei_Electronics 21N22564-10M10B-01G-6/1.5-C*B Jih_Vei_Electronics N2264-10M15-01G {ROHS} Jih_Vei_Electronics N2264-10M15-01T Major_League_Electronics TSHSM-105-D-06-T-V-P Neltron 2213SMD-10T Oupiin 2015-2X5TD/L2 Samtec TSM-105-01-T-DV-M
Conn., M.2 (NGFF), 67pos, 0.5mm pitch, H=4.2mm, E Key	1	P23	AMPHENOL (FCI) MDT420E[02|03]001 AMPHENOL (FCI) MDT420E03001 Bellwether 80152-4221 Bellwether 80152-42[2|8]1 Bellwether 80152-4281 FIT (Foxconn) AS0BC21-S40BE-7H Lotes APCI0108-P001A Morethanall NGFF-W42R-2344-LF Tyco (TE) 2199230-[2|4] Tyco (TE) 2199230-4
Conn., Micro-SD, Push/pull type, With Card Detect, SMT	1	P4	Molex 105162-0001 Molex 105162-0101 Molex 105162-[10|01|00]01
Conn., Micro-USB, B-Type, Rec, RA, with optional pegs	2	P21,P3	Amco 211-100521-002 Mainsuper AV4-AA-005-K0 {UCNRB005E005-0} T&R
Conn., Mini-PCIe socket, Card H=4.8mm (6.8mm connector body), Black	1	P8	Concraft 0717A01A68C Lotes AAA-PCI-073-P08 Neltron 6616-52SG-68-TR Tyco (TE) 2041262-1
Conn., RJ45, W/1GB-T mag and G/Y LED, RA, TH	2	P5,P6	GLGNET NLFA1T802-GL/YR LINK-PP LPJG0801AHNL Prosper_Electronics PRJ-G111083NL SJC 9805-81024-130D-LOT3-A Speed_Tech P65-101-[1|2]AK9 Speed_Tech P65-101-1AK9 Speed_Tech P65-101-2AK9 UDE RB1-125BAK1A UNE (B-TOP) B5002-32G8-09-A223-B12 UNE (B-TOP) B50(02-32)G8-09-A223-B[1|5]2 UNE (B-TOP) B5002-32G8-09-A223-B52
Conn., USB3 Type A, FEM, RA, PC Mount, SMT	2	J2,J3	Antenk U3AFM01-I-P-P-G0-D Contact Technology SUA-110M2-30-S081 Contact Technology SUA-110M2-30-S277 Genesis 210-10043-01 Most Well R2U3AHM-HSAFS1BN87A01
Diode, Schottky, 1A, 30V, SOD-123	3	D23,D24,D25	DIODES_Inc (Pericom) B130LAW-7-F Lexusemi B5818W-01 MCC SM5818PL-TP ON_Semiconductors MBR130T1G ON_Semiconductors MBR130T3G VISHAY SL03-GS08
Diode, Schottky, Sgl, BAT54WS, SOD-323	4	D10,D11,D14,D2	DIODES_Inc (Pericom) BAT54WS-7 DIODES_Inc (Pericom) BAT54WS-7-F DIODES_Inc (Pericom) BAT54WS(Q)-[7|13]-F Diotec BAT54WS Infineon BAS140W Infineon BAS3010A-03W Lexusemi BAT54WS-06 NXP (Freescale) 1PS76SB10 ON_Semiconductors BAT54HT1 ON_Semiconductors BAT54HT1G VISHAY BAT54WS-[E|G]3-08 VISHAY BAT54WS-GS08 Yangjie Electronic BAT54WS
Diode, TVS, Dual USB 2.0 ESD protection, Low cap (1pF)	5	U26,U27,U28,U33,U38	AOS AOZ8007CI NXP (Freescale) IP4220CZ6 NXP (Freescale) IP4220CZ6(,125) ON_Semiconductors NUP4301MR6T1G ST DVIULC6-4SC6 Wayon WE05-4RVLC
Diode, TVS, Vrwm=22V, BiDi, 1500W, SMC	1	D9	BOURNS SMCJ22CA Brightking (Yageo) SMCJ22CA DIODES_Inc (Pericom) SMCJ22CA-13-F FAIRCHILD (ON Semiconductors) SMCJ22CA LittleFuse SMCJ22CA VISHAY SMCJ22CA-E3/9AT Yangjie Electronic SMCJ22CA
EMI Filter, Common mode, With ESD, 60Ohm, USB3 app, SMT	21	L1,L11,L12,L13,L14,L15,L16,L17,L18,L19,L2,L25,L27,L28,L30,L59,L60,L61,L62,L63,L7	LittleFuse LCFE121002A650TG Murata LXES11DAA2-135 TDK TCE1210U-500-2P-T
Ferrite Bead, 0603, Z=30 Ohm@100Mhz, 5A, 0.01 Ohm DCR, 0603	2	FB1,FB2	ETRONIC MHC1608S300UA MAX ECHO BCMS160808A300 RDC01 5A Murata BLM18KG300TN1D TDK MPZ1608S300ATAH0 TDK MPZ1608S300AT(AH0|DH5)

Ferrite Bead, Z=120 Ohm@100Mhz, >=500mA, <=0.25 Ohm DCR, 0402	4	L23,L24,L26,L31	Chilisin (PULSE) SBJ100505T-121Y-N SAMSUNG_ELECTRO CIM05U121NC Taiyo_yuden BK1005HS121-T TDK MMZ1005S121CT000
Ferrite Bead, Z=220R@100Mhz, 2A, 0.05 Ohm DCR, 0603	4	FB4,FB5,FB6,FB7	Chilisin (PULSE) PBJ 160808T-221Y-N Laird (Ezurio) MI0603L221R-10 Murata BLM18KG221SN1D TDK MPZ1608S221ATA00 TDK MPZ1608S221AT[A00|D25] Tri-Tron (Sunborn) HTBS160808A221 RDC05
Fuse, Resettable PTC, 1.1A Ih, 2.2A It	1	F4	BOURNS MF-NSMF110-2 Fuzetec FSMD110-1206R Inpaq PFS1206I110S LittleFuse 1206L110-CWR LittleFuse 1206L110-CYR LittleFuse 1206L110THYR
IC, Analog, 3A power switch with adj. current limit (USB), For ARM platform	1	U41	AIT Semiconductor A4775M8(V)R JTM CXUS7702SR(MT-G) JTM CXUS7702SRMT-G Richtek RT9703GS Richtek RT9703[P|G]S
IC, Interface, 10/100TX/1000 PHY, RGMII (1.5V<RGMII_VIO	1	U14	REALTEK RTL8211FD-CG REALTEK RTL8211FD(I)-CG
IC, Interface, CAN transceiver, 5Mbps data rate, For 3.3V-5.5V I/O	1	U59	Infineon TLE9251VSJXUMA1 MicroChip (SST/Micrel/Atmel/SMSC) ATA6563-GAQW0 MicroChip (SST/Micrel/Atmel/SMSC) ATA6563-GAQW[0|1] MicroChip (SST/Micrel/Atmel/SMSC) ATA6563-GAQW1 ON_Semiconductors NCV7344AD13R2G TI (National Semi) TCAN1057AVDRQ1
IC, interface, Level translator, 2 bit, Bi-Di, for OC and Push-pull, for I2C	7	U25,U44,U45,U47,U48,U49,U9	NXP (Freescale) NTS0102DP TI (National Semi) TXS0102DCTR TI (National Semi) TXS0102DCTT TI (National Semi) TXS0102DCT[T|R](E4|G4)
IC, Interface, USB 2.0 Full Speed to UART bridge	1	U24	Silicon Labs CP2104-F03-GM(R) Silicon Labs CP2104-F03-GMR
IC, Interface, USB2.0 HS 2:1 multiplexer (DPDT)	3	U34,U36,U42	Intersil (Renesas) ISL54222AIRUZ-T ON_Semiconductors NLAS7222AMTR2G ON_Semiconductors NLAS7222AMUR2G ON_Semiconductors NLAS7222AMUTAG ON_Semiconductors NLAS7222BMUTAG TOSHIBA TC7USB40MU,LF {S2E}
IC, Led driver, Step-up, PWM, 2.5-5.5V Vin, 40mA Iout (var), 6-12 LED	1	U15	DIODES_Inc (Pericom) AP3019AKTR-G1 Yobon YB9285
IC, Led driver, Step-up, PWM, 3-18V Vin, 1.2A Iout (var), SOT-23	1	U5	TI (National Semi) TPS61165DBV TI (National Semi) TPS61165DBVR TI (National Semi) TPS61165DBVT TI (National Semi) TPS61165DBV(T|R)
IC, Logic, 74LVC, Single Schmitt Trigger buffer, 1.65-5.5V, SC-70	1	U43	DIODES_Inc (Pericom) 74LVC1G17SE-7 Nexperia 74LVC1G17GW,125 TI (National Semi) SN74LVC1G17MDCKREP
IC, Logic, MicroGate, NC7SZ32, 2 Input OR gate, SC70	1	U46	DIODES_Inc (Pericom) 74LVC1G32SE-7 FAIRCHILD (ON Semiconductors) NC7SZ32P5X NXP (Freescale) 74LVC1G32GW ON_Semiconductors NC7SZ32P5X ON_Semiconductors NL17SZ32DFT2 ON_Semiconductors NL17SZ32DFT2G ON_Semiconductors NL17SZ32DFT2G(-L22038) TI (National Semi) SN74LVC1G32DCKR TI (National Semi) SN74LVC1G32DCKRE4 TI (National Semi) SN74LVC1G32DCKR(G4|E4) TOSHIBA TC7SZ32FU
IC, Memory, EEPROM, 24C08, 1Kx8, 16-bytes page size, 1.8-5.5V, I2C interface, DFN-8	1	U31	ON_Semiconductors CAT24C08HU4I-GT3 Puya P24C08D-UNH-MIR ST M24C08-FMC6TG
IC, Periph, 16-bit I2C and SMBus GPIO I/O expander	1	U35	DIODES_Inc (Pericom) PI4IOE5V9555ZDEX DIODES_Inc (Pericom) PI4IOE5V9555ZDEX(-13R) EXAR (MaxLinear) XRA1201PIL24-F EXAR (MaxLinear) XRA1201PIL24(TR)-F EXAR (MaxLinear) XRA1201PIL24TR-F MAXIM (Analog Devices) MAX7311ATG(+T) NXP (Freescale) PCA9555BS,118 NXP (Freescale) PCA9555HF,118 ON_Semiconductors CAT9555HT6I-GT2 ON_Semiconductors CAT9555HV6I(G)-T2 ON_Semiconductors CAT9555HV6IG-T2 ON_Semiconductors CAT9555HV6I-T2 ON_Semiconductors PCA9655EMTTXG TI (National Semi) PCA9555RGER(G4) TI (National Semi) TCA9555RTWR
IC, Periph., Ind., 10/100/1000 Ethernet PHY, RGMII, KSZ9131RNX, QFN7x7-48	1	U60	MicroChip (SST/Micrel/Atmel/SMSC) KSZ9131RNXI-TR
IC, Periph., WM8962B, LP Audio Stereo codec, I2S, w/Headphone Amplifier, (1.8-2.5V VIO), BGA-49	1	U37	Cirrus_Logic WM8962BECSN/R
IC, Volt Reg., Step down, 3A, Vin=4.5V..36V, Vo=0.8V..30V, RT7272B, SOP-8	4	U29,U30,U32,U40	Richtek RT7272BGSP
Inductor, 10uH, 0.8A, 4x4mm	2	L8,L9	Delta SI43-100 Murata LQH44PN100MP0L Sunlord SWPA4020S100M Sunlord SWPA4020S100M(T) Sunlord SWPA4020S100MT Taiyo_yuden (LM) NR 4018T 100M Taiyo_yuden LM NR 4018T 100M Taiyo_yuden SWPA4020S100M TDK VLC4018T-100M
Inductor, 6.8uH, Irms>=2.4A, Isat>=3.8A, DCR < 150mohm, H=2mm MAX	1	L20	PULSE PM4345.682NLT
Inductor, 6.8uH, Irms>=4A, Isat>=4A, DCR < 76mohm	3	L21,L22,L32	BOURNS SRP5030T-6R8M Erocore MPS0530S-6R8M
LED, Green, SMT,1206	2	DS3,DS4	Avago HSMG-C150 Avago HSMG-C151 DIALIGHT 597-3311-407 EVERLIGHT 15-21SYGD/S530-E2/3T EVERLIGHT 15-21SYGD/S530-E2/TR8 EVERLIGHT 15-21/VGC/TR8/T1 EVERLIGHT QTLP650D4TR KingBright KP-3216SGC KingBright KP3216SGD Lumex SML-LX1206GC-TR P-Tec PL00200-WCG13 TOYO LED TY-Y1206UG1(0.90) TOYO LED TY-Y1206UG10.90 z#QT_Opto QTLP650D-4 z#QT_Opto QTLP650D-4.TR

LED, Yellow, SMT,1206	2	DS2,DS5	DIALIGHT 597-3401-407 EVERLIGHT 15-21UYC/S530-A2/3T EVERLIGHT 15-21UYC/S530-A2/TR8 KingBright KP3216YD
PCB, SBC-MCM8PV2, Rev 1.0	1	PCB1	Q&D Circuits 188C05120, IMG Unitech 188C05120, IMG
Res., 0.018R, 1%, 2010, 1/2W (current sense)	1	R173	Fenghua RTH-10YR018FT VISHAY WSL2010R0180FEA Walsin WW20WR018FTL Yageo (Brightking) RL2010FK-070R018L Yageo (Brightking) RL2010F[K|R]-070R018L
Res., 0.020R, 1%, 1206, 1/2W (Current sense)	1	R183	ROHM UCR18EVHFSR020 SAMSUNG_ELECTRO RU3216FR020CS Yageo (Brightking) RL1206FR-070R02L
Res., 0.75R, 1%, 0402, 1/16W (current sense)	1	R65	Panasonic_Industrial ERJ-2BQFR75X ROHM UCR01MVPFLR750 Tyco (TE) RLP73K1ER75FTDF VISHAY RCWE0402R750FKEA Yageo (Brightking) PT0402FR-070R75L
Res., 0R, 5%, 0402, 1/16W	30	R122,R162,R163,R177,R178,R179,R228,R236,R242,R247,R248, R249,R250,R254,R256,R257,R364,R365,R368,R369,R41,R51,R63, R885,R886,R890,R896,R897,R901,R99	Fenghua RC-02000JT PDC FCR02JV000 Royalohm 0402WGJ0000TCE SAMSUNG_ELECTRO RC1005J000CS TY-OHM RCM0402-1/16W-0R-J Walsin WR04X000PTL Yageo (Brightking) RC0402JR-070R Yageo (Brightking) RC0402JR-070RL
Res., 100K, 1%, 0402, 1/16W	2	R237,R903	Fenghua RC-02K1003FT Royalohm 0402WGF1003TCE SAMSUNG_ELECTRO RC1005F1003CS Walsin WR04X1003FTL Yageo (Brightking) RC0402FR-07100KL
Res., 100K, 5%, 0402, 1/16W	7	R180,R184,R191,R193,R196,R204,R213	Fenghua RC-02K104JT PDC FCR02JV1003 Royalohm 0402WGJ0104TCE SAMSUNG_ELECTRO RC1005J1003CS TY-OHM RCM0402-1/16W-100K-J Walsin WR04X104 JTL Yageo (Brightking) RC0402JR-07100K Yageo (Brightking) RC0402JR-07100KL
Res., 100R, 1%, 0402, 1/16W	1	R48	Fenghua RC-02K1000FT PDC FCR02FV1000 Royalohm 0402WGF1000TCE SAMSUNG_ELECTRO RC1005F1000CS TY-OHM RCM0402-1/16W-100R-F Walsin WR04X1000FTL Yageo (Brightking) RC0402FR-07100R Yageo (Brightking) RC0402FR-07100RL
Res., 10K, 1%, 0402, 1/16W	51	R1,R10,R11,R12,R13,R134,R149,R168,R169,R171,R172,R176, R194,R2,R201,R209,R215,R217,R224,R229,R230,R234,R235,R240,R243,R244,R245,R259,R260,R274,R325,R329,R331,R332,R333 ,R334,R38,R44,R52,R74,R76,R887,R89,R9,R900,R904,R905,R906 ,R910,R912,R92	Fenghua RC-02K1002FT PDC FCR02FV1002 Royalohm 0402WGF1002TCE SAMSUNG_ELECTRO RC1005F1002CS TY-OHM RCM0402-1/16W-10K-F Walsin WR04X1002FTL Yageo (Brightking) RC0402FR-0710K0 Yageo (Brightking) RC0402FR-0710KL
Res., 10R, 5%, 0603	10	R150,R151,R154,R156,R157,R161,R165,R174,R175,R79	PDC FCR03JT100 ROHM MCR03EZHJ100 SAMSUNG_ELECTRO RC1608J100CS Stackpole RMCF0603JT10R0 TY-OHM RCM0603-1/16W-10R-J VISHAY CRCW0603100JRT1 Walsin WR06X100_JTL Yageo (Brightking) RC0603JR-0710R Yageo (Brightking) RC0603JR-0710RL
Res., 120R, 1%, 0402, 1/16W	1	R6	Fenghua RC-02K1200FT Royalohm 0402WGF1200TCE Walsin WR04X1200FTL Yageo (Brightking) RC0402FR-07120RL
Res., 12.4K, 1%, 0402, 1/16W	1	R212	Fenghua RC-02K1242FT SAMSUNG_ELECTRO RC1005F1242CS Walsin WR04X1242FTL Yageo (Brightking) RC0402FR-0712K4L
Res., 14.7K, 1%, 0402, 1/16W	1	R30	Royalohm 0402WGF1472TCE SAMSUNG_ELECTRO RC1005F1472CS Viking CR-02FL6--14K7 Walsin WR04X1472FTL Yageo (Brightking) RC0402FR-0714K7L
Res., 1.5K, 1%, 0402, 1/16W	4	R106,R231,R289,R898	PDC FCR02FV1501 Royalohm 0402WGF1501TCE SAMSUNG_ELECTRO RC1005F1501CS TY-OHM RCM0402-1/16W-1K5-F Walsin WR04X1501FTL Yageo (Brightking) RC0402FR-071K5 Yageo (Brightking) RC0402FR-071K5L
Res., 17.8K, 1%, 0402, 1/16W	3	R187,R197,R222	Royalohm 0402WGF1782TCE SAMSUNG_ELECTRO RC1005F1782CS Walsin WR04X1782FTL Yageo (Brightking) RC0402FR-0717K8L
Res., 1K, 1%, 0402, 1/16W	7	R200,R203,R219,R884,R914,R916	Fenghua RC-02K1001FT PDC FCR02FV1001 Royalohm 0402WGF1001TCE SAMSUNG_ELECTRO RC1005F1001CS TY-OHM RCM0402-1/16W-1K-F Walsin WR04X1001FTL Yageo (Brightking) RC0402FR-071KL
Res., 1M, 5%, 0402, 1/16W	1	R153	Fenghua RC-02K105JT Royalohm 0402WGJ0105TCE SAMSUNG_ELECTRO RC1005J105CS Walsin WR04X105_JTL Yageo (Brightking) RC0402JR-071ML
Res., 200R, 1%, 0402, 1/16W	2	R90,R91	Fenghua RC-02K2000FT PDC FCR02FV2000 Royalohm 0402WGF2000TCE SAMSUNG_ELECTRO RC1005F2000CS TY-OHM RCM0402-1/16W-200R-F Walsin WR04X2000FTL Yageo (Brightking) RC0402FR-07200R Yageo (Brightking) RC0402FR-07200RL
Res., 20.5R, 1%, 0402, 1/16W	2	R239,R241	Fenghua RC-02K20R5FT Fenghua RC-02[K|W]20R5FT Royalohm 0402WGF205JTCE SAMSUNG_ELECTRO RC1005F20R5CS Walsin WR04X20R5FTL Yageo (Brightking) RC0402FR-0720R5L
Res., 20K, 1%, 0402, 1/16W	2	R152,R270	Fenghua RC-02K2002FT PDC FCR02FV2002 Royalohm 0402WGF2002TCE SAMSUNG_ELECTRO RC1005F2002CS TY-OHM RCM0402-1/16W-20K0-F Walsin WR04X2002FTL Yageo (Brightking) RC0402FR-0720K Yageo (Brightking) RC0402FR-0720KL
Res., 220R, 5%, 0402, 1/16W	1	R45	PDC FCR02JV221 SAMSUNG_ELECTRO RC1005J221CS TY-OHM RCM0402-1/16W-220R-J Walsin WR04X221 JTL Yageo (Brightking) RC0402JR-07220R Yageo (Brightking) RC0402JR-07220RL
Res., 22.1K, 1%, 0402, 1/16W	1	R223	PDC FCR02FV2212 SAMSUNG_ELECTRO RC1005F2212CS TY-OHM RCM0402-1/16W-22K1-F Walsin WR04X2212FTL Yageo (Brightking) RC0402FR-0722K1 Yageo (Brightking) RC0402FR-0722K1L

Res., 2.2K, 5%, 0402, 1/16W	3	R81,R82,R83	Fenghua RC-02K222JT Royalohm 0402WGF2201TCE Royalohm 0402WGJ0222TCE SAMSUNG_ELECTRO RC1005J222CS Walsin WR04X222_[FJ]TL Walsin WR04X222_FTL Walsin WR04X222_JTL Yageo (Brightking) RC0402JR-072K2L
Res., 22R, 5%, 0402, 1/16W	6	R888,R889,R891,R893,R894,R895	PDC FCR02JV220 SAMSUNG_ELECTRO RC1005J220CS TY-OHM RCM0402-1/16W-22R-J Walsin WR04X220_JTL Yageo (Brightking) RC0402JR-0722R Yageo (Brightking) RC0402JR-0722RL
Res., 2.49K, 1%, 0402, 1/16W	1	R124	Royalohm 0402WGF2491TCE SAMSUNG_ELECTRO RC1005F2491CS Walsin WR04X2491FTL Yageo (Brightking) RC0402FR-072K49L
Res., 27.4K, 1%, 0402, 1/16W	1	R264	Royalohm 0402WGF2742TCE SAMSUNG_ELECTRO RC1005F2742CS Walsin WR04X2742FTL Yageo (Brightking) RC0402FR-0727K4L
Res., 28.7K, 1%, 0402, 1/16W	4	R190,R199,R206,R214	Fenghua 0402WGF2872TCE Fenghua RC-02K2872FT Royalohm 0402WGF2872TCE SAMSUNG_ELECTRO RC1005F2872CS Walsin WR04X2872FTL Yageo (Brightking) RC0402FR-0728K7L
Res., 301K, 1%, 0402, 1/16W	1	R42	SAMSUNG_ELECTRO RC1005F3013CS Walsin WR04X3013FTL Yageo (Brightking) RC0402FR-07301KL
Res., 30K, 1%, 0402, 1/16W	1	R268	CAL-CHIP RM04F3002CT Fenghua RC-02K3002FT PDC FCR02FV3002 Royalohm 0402WGF3002TCE SAMSUNG_ELECTRO RC1005F3002CS TY-OHM RCM0402-1/16W-30K-F Walsin WR04X3002FTL Yageo (Brightking) RC0402FR-0730K Yageo (Brightking) RC0402FR-0730KL
Res., 4.75K, 1%, 0402, 1/16W	10	R164,R232,R233,R238,R258,R263,R265,R271,R272,R273	Fenghua RC-02K4751FT Royalohm 0402WGF4751TCE SAMSUNG_ELECTRO RC1005F4751CS Walsin WR04X4751FTL Yageo (Brightking) RC0402FR-074K75L
Res., 475R, 1%, 0402, 1/16W	4	R101,R133,R892,R899	Fenghua RC-02K4750FT PDC FCR02FV4750 Royalohm 0402WGF4750TCE SAMSUNG_ELECTRO RC1005F4750CS TY-OHM RCM0402-1/16W-475R-F Walsin WR04X4750FTL Yageo (Brightking) RC0402FR-07475R Yageo (Brightking) RC0402FR-07475RL
Res., 562K, 1%, 0402, 1/16W	1	R266	SAMSUNG_ELECTRO RC1005F5623CS VISHAY CRCW0402562KFKED Walsin WR04X5623FTL Yageo (Brightking) RC0402FR-07562KL
Res., 56.2K, 1%, 0402, 1/16W	1	R198	SAMSUNG_ELECTRO RC1005F5622CS Walsin WR04X5622FTL Yageo (Brightking) RC0402FR-0756K2L
Res., 6.04K, 1%, 0402, 1/16W	1	R902	PDC FCR02FV6041 Royalohm 0402WGF6041T[5|C]E Royalohm 0402WGF6041TCE SAMSUNG_ELECTRO RC1005F6041CS TY-OHM RCM0402-1/16W-6K04-F Walsin WR04X6041FTL Yageo (Brightking) RC0402FR-076K04 Yageo (Brightking) RC0402FR-076K04L
Res., 6.2R, 1%, 0402, 1/16W	1	R39	SAMSUNG_ELECTRO RC1005F6R2CS VISHAY CRCW04026R20FKED Walsin WR04W6R20FTL Yageo (Brightking) RC0402FR-076R2L
Res., 64.9K, 1%, 0402, 1/16W	2	R181,R208	SAMSUNG_ELECTRO RC1005F6492CS Walsin WR04X6492FTL Yageo (Brightking) RC0402FR-0764K9L
Res., 680R, 1%, 0402, 1/16W	1	R182	Fenghua RC-02K6800FT SAMSUNG_ELECTRO RC1005F680RCS Walsin WR04X6800FTL Yageo (Brightking) RC0402FR-07680RL
Res., Array, 10K, 8P4R, 5%, 0805	1	RN17	BOURNS CAY10-103J4LF CAL-CHIP CN24J103CT Fenghua RC-MT08W103JT Panasonic_Industrial EXB-N8V103JX Royalohm 4D02WGJ0103TCE SAMSUNG_ELECTRO RP104PJ103CS TA-I CN24JTN103 Walsin WA04X103JTL Yageo (Brightking) YC124JR-0710K Yageo (Brightking) YC124JR-0710KL
Socket, Micro-Sim, SMT, 6pin	1	P7	GCT SIM7050-6-0-00-A Most Well R2S32HM-824106G117A01
Spacer, Round, M2 Threaded, H=4mm, For 1.6mm PCB thickness, SMT	2	SP5,SP6	MAC8 TH-1.6-4.0-M2
Spacer, Round, Tapped, M3 Threaded, H=2.5mm, SMT	1	SP12	MAC8 3SSB-2.5 Omongroup OM.CJ.BR.0270 TaiHeShuo (Guan Mei) 403-0204-0025-002+403-0718-0032-002 TaiHeShuo (Guan Mei) 403-0204-0025-002-M TaiHeShuo (Guan Mei) 403-0204-0025-004-M
SWITCH, Push-B,Tact, 6x6 mm, 4.3mm High, SMT	3	SW2,SW3,SW4	APEM-MORS ADTSM61NVTR APEM-MORS MJTP1122B Canal_Electronics DTSM61N DAEJIN 1102S DIPTRONICS DTSM61N DIPTRONICS DTSM-61N-V-T/R Switronic 1102W
Switch, Slide, SPST, On-Off, 16x10x8mm, TH	1	SW1	CW Industries GF-123-0054
Transistor, N-MOSFET, 1A, 30V, RDS	5	Q11,Q12,Q13,Q14,Q15	Nexperia BSH103BKR
Transistor, N-MOSFET, Dual, 20V, 0.5A, vgs(th)=0.6V, NTZD3154NT	3	Q24,Q4,Q6	DIODES_Inc (Pericom) DMN2004VK-7 DIODES_Inc (Pericom) DMN32D2LV-7 MCC SIX3134KA-TP ON_Semiconductors NTZD3154NT1G ON_Semiconductors NTZD3154NT5G VISHAY Si1036X-T1-GE3
Transistor, P-MOSFET, 8.3A, 20V, vgs(th)=-1.8V / Rds=30mOhm	2	Q1,Q25	DIODES_Inc (Pericom) DMP2008UFG-7 DIODES_Inc (Pericom) DMP2008UFG[-7|13] FAIRCHILD (ON Semiconductors) FDMC510P FAIRCHILD (ON Semiconductors) FDMC510P(_F106) FAIRCHILD (ON Semiconductors) FDMC510P_F106 ON_Semiconductors NTLTS3107PR2G ON_Semiconductors NTTFS3A08PZTAG ROHM Q1A070ZP VISHAY Si7413DN-T1-E3 VISHAY Si7413DN-T1-GE3 VISHAY Si7413DN-T1-(G)E3 VISHAY SiS407DN-T1-GE3

XTAL, Industrial, 25.000Mhz, 18pF, 30PPM, 3.2x2.5mm, 4 pads, SMT	2	X1,X4	Abracon ABM8-25.000MHZ-D2Y-T DIODES_Inc (Pericom) FL2500133 SJK SJK-7U-25.000-18-30-40-C-30 Tech-Time S32-25.000-18-48-1-2-F-R Yoketan S3225A-025000-T18BBAAC