

TITLE: Bill of Materials  
 DATE: 05/14/2019  
 DESIGN: max77654\_evkit\_rev  
 VARIANT: new\_variant

NOTE: DNI-> DO NOT INSTALL(PACKOUT) ; DNP-> DO NOT PROCURE

ITEM	REF_DES	DNI/DNP	QTY	MFG PART #	MANUFACTURER	VALUE	DESCRIPTION	COMMENTS
1	AIN1, AIN7, AMUX, GPIO0-GPIO2, I_LDO0, I_LDO1, I_SBB0-I_SBB2, NEN, NIRQ, NRST, SCL, SDA, TBIA5, THM, VL	-	19	5002	KEystone	N/A	TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN; BOARD HOLE=0.04IN; WHITE; PHOSPHOR BRONZE WIRE SILVER;	
2	C1	-	1	GRM188R71E474KA12;GCM188R71E474KA64	MURATA;MURATA	0.47UF	CAPACITOR; SMT (0603); CERAMIC CHIP; 0.47UF; 25V; TOL=10%; MODEL=GRM SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R	
3	C3, C7	-	2	C1608X5R1E475K080AC; GRM188R61E475KE11	TDK;MURATA	4.7UF	CAPACITOR; SMT (0603); CERAMIC CHIP; 4.7UF; 25V; TOL=10%; TG=-55 DEGC TO +85 DEGC; TC=X5R	
4	C4	-	1	GRM033R71C332KA88	MURATA	3300PF	CAP; SMT (0201); 3300PF; 10%; 16V; X7R; CERAMIC CHIP	
5	C5, C8, C11, C13, C14, C20	-	6	C1608X5R1A226M080AC; GRM188R61A226ME15	TDK;MURATA	22UF	CAPACITOR; SMT (0603); CERAMIC CHIP; 22UF; 10V; TOL=20%; TG=-55 DEGC TO +85 DEGC; TC=X5R	
6	C6, C9, C10, C16, C17, C29, C36, C40-C42, C51, C239-C242, C269-C271	-	18	C0402C105K8PAC;CC0402KRX5R6BB105	KEMET;YAGEO	1UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 1UF; 10V; TOL=10%; TG=-55 DEGC TO +85 DEGC; TC=X5R	
7	C12, C15	-	2	GRM155R61C225KE44	MURATA	2.2UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 2.2UF; 16V; TOL=10%; TG=-55 DEGC TO +85 DEGC; TC=X5R	
8	C21, C28, C31	-	3	C1005X5R1A475K050	TDK	4.7UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 4.7UF; 10V; TOL=10%; TG=-55 DEGC TO +85 DEGC; TC=X5R	
9	C22, C25-C27, C30, C32-C35, C37-C39, C43, C44, C47, C48, C63-C67, C73, C202, C207, C212, C217, C221-C223, C234, C235, C237, C244, C268, C272-C277	-	40	GRM155R71E104KE14;C1005X7R1E104K050BB;TMK105B7104KVH;CGJ2B3X7R1E104K050BB	MURATA;TDK;TAIYO YUDEN;TDK	0.1UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 0.1UF; 25V; TOL=10%; MODEL=GRM SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R	
10	C23, C24	-	2	GRM0335C1H270JA01	MURATA	27PF	CAP; SMT (0201); 27PF; 5%; 50V; COG; CERAMIC CHIP	
11	C45, C52, C200, C205, C210, C215, C220, C238, C248-C252	-	13	C0402C472K5RAC;GRM155R71H472KA01;C1005X7R1H472K050BA	KEMET;MURATA;TDK	4700PF	CAPACITOR; SMT (0402); CERAMIC CHIP; 4700PF; 50V; TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R	
12	C46, C201, C206, C211, C216	-	5	C0402H102J5GAC	KEMET	1000PF	CAPACITOR; SMT (0402); CERAMIC CHIP; 1000PF; 50V; TOL=5%; MODEL=HT SERIES; TG=-55 DEGC TO +200 DEGC; TC=COG	
13	C49, C50, C203, C204, C208, C209, C213, C214, C218, C219	-	10	C0402C180J5GAC;GRM1555C1H180JA01;C1005COG1H180J50BA	KEMET;MURATA;TDK	18PF	CAPACITOR; SMT (0402); CERAMIC CHIP; 18PF; 50V; TOL=5%; TG=-55 DEGC TO +125 DEGC; TC=COG	
14	C68-C72	-	5	CL05B103KP5NNN	SAMSUNG ELECTRONICS	0.01UF	CAPACITOR; SMT (0402); CERAMIC; 0.01UF; 10V; TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R	
15	CHGIN, INLDO0, INLDO1, IN_SBB, LDO0, LDO1, SBB0-SBB2, VBATT, VSYS, VUSB	-	12	5010	KEystone	N/A	TEST POINT; PIN DIA=0.125IN; TOTAL LENGTH=0.445IN; BOARD HOLE=0.063IN; RED; PHOSPHOR BRONZE WIRE SIL;	
16	D1	-	1	B0530W-7-F	DIODES INCORPORATED	B0530W	DIODE; SCH; SMT (SOD-123); PIV=30V; IF=0.5A	
17	DS1-DS3	-	3	LTST-C190CKT	LITE-ON ELECTRONICS INC.	LTST-C190CKT	DIODE; LED; STANDARD; RED; SMT (0603); PIV=5.0V; IF=0.04A; -55 DEGC TO +85 DEGC	
18	DS4	-	1	LTST-C190YKT	LITE-ON ELECTRONICS INC.	LTST-C190YKT	DIODE; LED; STANDARD; YELLOW; SMT (0603); PIV=5.0V; IF=0.02A; -55 DEGC TO +85 DEGC	
19	DS5	-	1	LTST-C190GKT	LITE-ON ELECTRONICS INC.	LTST-C190GKT	DIODE; LED; WATER CLEAR GREEN; SMT (0603); VF=2.1V; IF=0.03A; -55 DEGC TO +85 DEGC	
20	GND1, GND5-GND7	-	4	5011	KEystone	N/A	TEST POINT; PIN DIA=0.125IN; TOTAL LENGTH=0.445IN; BOARD HOLE=0.063IN; BLACK; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH;	
21	GND2-GND4, GND8, GND10	-	5	9020 BUSS	WEICO WIRE	MAXIMPAD	EVK KIT PARTS; MAXIM PAD; WIRE; NATURAL; SOLID; WEICO WIRE; SOFT DRAWN BUS TYPE-S; 20AWG	
22	J1, J4	-	2	10118193-0001LF	FCI CONNECT	10118193-0001LF	CONNECTOR; FEMALE; SMT; MICRO USB B TYPE RECEPTACLE; RIGHT ANGLE; 5PINS	
23	J2	-	1	PBC115AAN	SULLINS ELECTRONICS CORP.	PBC115AAN	CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 11PINS; -65 DEGC TO +125 DEGC	
24	J3	-	1	TSW-103-07-T-S	SAMTEC	TSW-103-07-T-S	CONNECTOR; THROUGH HOLE; TSW SERIES; SINGLE ROW; STRAIGHT; 3PINS	
25	J5, J7, J8	-	3	TSW-103-07-L-D	SAMTEC	TSW-103-07-L-D	CONNECTOR; THROUGH HOLE; THROUGH HOLE 0.025 POST HEADER; STRAIGHT; 6PINS	
26	J6, J11, J12, J200-J207	-	11	TSW-102-07-T-S	SAMTEC	TSW-102-07-T-S	CONNECTOR; THROUGH HOLE; TSW SERIES; SINGLE ROW; STRAIGHT; 2PINS; -55 DEGC TO +105 DEGC	
27	J9	-	1	S2B-PH-K-S(LF)(SN)	JST MANUFACTURING	S2B-PH-K-S(LF)(SN)	CONNECTOR; MALE; THROUGH HOLE; THROUGH HOLE 0.025 POST CRIMP STYLE CONNECTOR; SIDE ENTRY TYPE; RIGHT ANGLE; 2PINS	
28	J10	-	1	PEC035AAN	SULLINS ELECTRONICS CORP.	PEC035AAN	EVKIT PART-CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 3PINS; -65 DEGC TO +125 DEGC;	
29	L1	-	1	DFE201612E-2R2M	MURATA	2.2UH	INDUCTOR; SMT (0806); WIREWOUND CHIP; 2.2UH; TOL=+/-20%; 1.8A	
30	L2, L4, L5	-	3	BLM18AG6015N1	MURATA	600	INDUCTOR; SMT (0603); FERRITE-BEAD; 600; TOL=+/-; 0.5A	
31	L3	-	1	DFE201210S-2R2M=P2	MURATA	2.2UH	EVKIT PART-INDUCTOR; SMT (0805); MAGNETICALLY SHIELDED; 2.2UH; TOL=+/-20%; 1.8A	
32	L7	-	1	DFE201210U-1R5M=P2	TOKO	1.5UH	INDUCTOR; SMT (0805); METAL ALLOY CHIP; 1.5UH; TOL=+/-20%; 1.9A	
33	L8	-	1	DFE201612E-1R0M	MURATA	1UH	INDUCTOR; SMT (0806); WIREWOUND CHIP; 1UH; TOL=+/-20%; 2.9A	
34	L9	-	1	DFE201612E-1R5M	MURATA	1.5UH	INDUCTOR; SMT (0806); METAL; 1.5UH; 20%; 2.30A	
35	Q2, Q200-Q203	-	5	IRFHM8337TRPBF	INTERNATIONAL RECTIFIER	IRFHM8337TRPBF	TRAN; HEXFET POWER MOSFET; NCH; PQFN8; PD-(2.8W); I-(18A); V-(30V)	
36	Q3, Q4	-	2	DMN2005DLP4K	DIODES INCORPORATED	DMN2005DLP4K	TRAN; DUAL N-CHANNEL ENHANCEMENT MODE MOSFET; NCH; DFN1310-6; PD-(0.4W); I-(0.3A); V-(20V)	
37	Q205	-	1	FDN360P	FAIRCHILD SEMICONDUCTOR	FDN360P	TRANSISTOR; MOSFET P-CHANNEL, SUPERSOT-3, PD=0.5W, ID=2.0A, VDS=-30V, VGSS=+/-20V	
38	Q206	-	1	2N7002;2N7002;2N7002;2N7002	DIODES INCORPORATED;ST MICROELECTRONICS;ON SEMICONDUCTOR;MICRO COMMERCIAL COMPONENTS	2N7002	TRAN; ; NCH; SOT-23; PD-(0.33W); IC-(0.5A); VCEO-(60V); -55 DEGC TO +150 DEGC	
39	R1, R3, R277, R279	-	4	CRCW06030000Z0	VISHAY DALE	0	RESISTOR; 0603; 0 OHM; 0%; JUMPER; 0.1W; THICK FILM	
40	R2	-	1	ANY	ANY	1M	RESISTOR; 0603; 1M; 1%; 100PPM; 0.10W; THICK FILM; FORMFACTOR	
41	R4, R6, R7, R19, R20, R29, R30, R33, R44, R52-R54, R204, R225, R238, R251, R259, R285, R286, R302-R306	-	24	ERJ-2GE0R00	PANASONIC	0	RESISTOR; 0402; 0 OHM; 0%; JUMPER; 0.10W; THICK FILM	
42	R8, R9, R281, R282, R287, R288	-	6	CRCW0402100KFK;RC0402FR-0710KL	VISHAY DALE;YAGEO PHICOMP	10K	RESISTOR; 0402; 10K; 1%; 100PPM; 0.0625W; THICK FILM	
43	R10, R11	-	2	ERJ-2RKF27R0X;RC0402FR-0727RL;CRCW040227R0FK	PANASONIC;YAGEO PHICOMP;VISHAY DALE	27	RESISTOR; 0402; 27 OHM; 1%; 100PPM; 0.0625W; THICK FILM	
44	R12	-	1	ERJ-2RKF1202	PANASONIC	12K	RESISTOR; 0402; 12K OHM; 1%; 100PPM; 0.1W; THICK FILM	
45	R13, R42, R55-R57, R210, R231, R244, R257, R301	-	10	CRCW04021M00FK	VISHAY DALE	1M	RESISTOR; 0402; 1M; 1%; 100PPM; 0.0625W; THICK FILM	
46	R14, R40, R41, R207, R208, R229, R230, R242, R243, R254, R255	-	11	ERJ-2RKF1001	PANASONIC	1K	RESISTOR; 0402; 1K OHM; 1%; 100PPM; 0.10W; THICK FILM	
47	R16	-	1	CRCW04024752FK; 9C04021A4752FLHF3; CRCW040247K5FK	VISHAY DALE;YAGEO;VISHAY DALE	47.5K	RESISTOR; 0402; 47.5K; 1%; 100PPM; 0.0625W; THICK FILM	
48	R5, R214, R283, R17, R24	-	5	CRCW0402100KFK;RC0402FR-07100KL	VISHAY;YAGEO	100K	RESISTOR; 0402; 100K; 1%; 100PPM; 0.0625W; THICK FILM	
49	R18, R47	-	2	CRCW0402150R0FK; 9C04021A1500FL	VISHAY DALE;YAGEO	150	RESISTOR; 0402; 150 OHM; 1%; 100PPM; 0.0625W; THICK FILM	
50	R21, R22	-	2	ERJ-2GEJ472	PANASONIC	4.7K	RESISTOR; 0402; 4.7K OHM; 5%; 200PPM; 0.10W; THICK FILM	
51	R23	-	1	CRCW0402169KFK	VISHAY DALE	169K	RESISTOR; 0402; 169K OHM; 1%; 100PPM; 0.063W; THICK FILM	
52	R25, R26	-	2	CRCW04022K20FK;RC0402FR-072K2L	VISHAY DALE;YAGEO PHICOMP	2.2K	RESISTOR; 0402; 2.2K OHM; 1%; 100PPM; 0.0625W; THICK FILM	
53	R27	-	1	RC0402FR-0722RL	YAGEO PHYCOMP	22	RESISTOR; 0402; 22 OHM; 1%; 100PPM; 0.063W; THICK FILM	
54	R28	-	1	CRCW0402470R0FK	VISHAY DALE	470	RESISTOR; 0402; 470 OHM; 1%; 100PPM; 0.0625W; THICK FILM	
55	R31, R203, R224, R237, R250	-	5	ERJ-2RKF2002	PANASONIC	20K	RESISTOR; 0402; 20K OHM; 1%; 100PPM; 0.1W; THICK FILM	
56	R32, R201, R222, R235, R248, R289	-	6	CRCW0402100R0FK; 9C04021A1000FL; RC0402FR-07100RL	VISHAY DALE;PANASONIC;YAGEO PHYCOMP	100	RESISTOR; 0402; 100 OHM; 1%; 100PPM; 0.063W; THICK FILM	
57	R34, R202, R223, R236, R249	-	5	CRCW0402680R0FK;RC0402FR-07680RL	VISHAY DALE;YAGEO PHICOMP	680	RESISTOR; 0402; 680 OHM; 1%; 100PPM; 0.0625W; THICK FILM	
58	R35, R36, R205, R206, R226, R228, R239, R240, R252, R253	-	10	ERJ-2RKF3301	PANASONIC	3.3K	RESISTOR; 0402; 3.3K OHM; 1%; 100PPM; 0.10W; THICK FILM	
59	R38, R293, R295, R297, R299	-	5	ERJ-2RKF4703	PANASONIC	470K	RESISTOR; 0402; 470K OHM; 1%; 100PPM; 0.0625W; THICK FILM	
60	R39, R294, R296, R298, R300	-	5	CRCW0402649KFK	VISHAY DALE	649K	RESISTOR; 0402; 649K OHM; 1%; 100PPM; 0.063W; THICK FILM	
61	R43, R211, R233, R245, R258	-	5	CSR1206FT1R00	STACKPOLE ELECTRONICS INC.	1	RESISTOR; 1206; 1 OHM; 1%; 100PPM; 0.5W; THICK FILM	
62	R46, R48, R50	-	3	CRCW04021R00FK	VISHAY DALE	1	RESISTOR; 0402; 1 OHM; 1%; 100PPM; 0.0625W; THICK FILM	
63	R49, R51	-	2	CRCW0402120R0FK;RC0402FR-07120RL	VISHAY DALE;YAGEO	120	RESISTOR; 0402; 120 OHM; 1%; +/-100PPM; 0.063W; THICK FILM	
64	R212, R213, R227, R234, R246, R247	-	6	CRCW0402787KFK	VISHAY DALE	787K	RESISTOR; 0402; 787K OHM; 1%; 100PPM; 0.063W; METAL FILM	
65	RT1	-	1	NCP15XH103F03	MURATA	10K	THERMISTOR; SMT (0402); THICK FILM (NICKEL PLATED); 10K; TOL=+/-1% SWITCH; SPST; SMT; 15V; 0.02A; LIGHT TOUCH SWITCH; RCOIL= OHM; RINSULATION= OHM; PANASONIC	
66	SW1	-	1	EVQ-Q2K03W	PANASONIC	EVQ-Q2K03W	SWITCH; SPDT; SMT; 12V; 0.2A; CL-SB SERIES; SLIDE SWITCH; RCOIL=0.05 OHM; RINSULATION=100M OHM	
67	SW2	-	1	CL-SB-12B-11	NIDEC COPAL ELECTRONICS CORP	CL-SB-12B-11	EVKIT PART - IC; MAX77654MENV+; WLP30; PACKAGE CODE: N302C2+1; PACKAGE OUTLINE DRAWING: 21-100307	
68	U1	-	1	MAX77654MENV+	MAXIM	MAX77654MENV+	IC; MMRY; DUAL HIGH SPEED USB TO MULTIPURPOSE UART/FIFO; LQFP64	
69	U2	-	1	FT232HL	FUTURE TECHNOLOGY DEVICES INTL LTD.	FT232HL	IC; VREG, Ultra-Low-Noise, High PSRR, Adjustable Vout, SC70-5	
70	U3, U4	-	2	MAX8512EXK+	MAXIM	MAX8512EXK	IC; TRANS; 15KV ESD-PROTECTED HIGH-DRIVE CURRENT QUAD-LEVEL TRANSLATOR WITH SPEED-UP CIRCUITRY; TQFN12 4X4	
71	U5, U6	-	2	MAX3395EETC+	MAXIM	MAX3395EETC		

72	U7	-	1	AT24CS02-SSHM	MICROCHIP	AT24CS02-SSHM	IC; EPROM; I2C-COMPATIBLE TWO-WIRE SERIAL EEPROM; 150MIL; NSOIC8
73	U200-U204	-	5	MAX44251AUA+	MAXIM	MAX44251AUA+	IC; OPAMP; ULTRA-PRECISION; LOW-NOISE OP AMP; UMAX8
74	U205	-	1	MAX5825AWP+	MAXIM	MAX5825AWP+T	IC; DAC; ULTRA-SMALL; OCTAL CHANNEL; 12-BIT BUFFERED OUTPUT DAC WITH INTERNAL REFERENCE AND I2C INTERFACE; WLP20
75	U209	-	1	MAX11614EEE+	MAXIM	MAX11614EEE+	IC; ADC; LOW-POWER; 8-CHANNEL; I2C; 12-BIT ADC IN ULTRA-SMALL PACKAGE; QSOP16
76	U210	-	1	MAX6071AAUT41+	MAXIM	MAX6071AAUT41+	IC; VREF; LOW NOISE; HIGH-PRECISION SERIES VOLTAGE REFERENCE; SOT23-6
77	U211	-	1	MAX1697UEUT+	MAXIM	MAX1697UEUT+	IC; INV; INVERTING CHARGE PUMP WITH SHUTDOWN; SOT23-6
78	Y1	-	1	7M-12.000MAAJ	TXC CORPORATION	12MHZ	CRYSTAL; SMT; 18PF; 12MHZ; +/-30PPM; +/-30PPM
79	PCB	-	1	MAX77654	MAXIM	PCB	PCB:MAX77654
80	L6	DNP	0	MLP1608VR47D	TDK	0.47UH	INDUCTOR; SMT (0603); SHIELDED; 0.47UH; TOL=+/-0.3nH; 0.8A
81	C2, C18, C19, C53-C62	DNP	0	N/A	N/A	OPEN	CAPACITOR; SMT (0402); OPEN; FORMFACTOR
82	R15, R37, R45, R260	DNP	0	N/A	N/A	OPEN	RESISTOR; 0402; OPEN; FORMFACTOR
TOTAL			338				