

# Bill of Materials

Project Number: P234  
Project Revision: 0.7  
Project File Name: BAS\_DevKIT\_PrvJpcb  
Assembly Variant: None  
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Part Number	QTY	Designator	Description	Manufacturer Part Number	Footprint	Layer	Quantity
CA0001		C110, C112, C113, C114, C117, C118, C119, C120, C203, C404, C405	10µF 16V 10% XSR	GRM21BR1C104KE15L	C0805	Top	11
CA0002		C207, C233	4.7µF 16V 10% XSR	C160805R1C4750B04C	C0403	Bottom	2
CA0003		C115, C116, C204, C205, C206, C207, C208, C209, C210, C211, C212, C213, C214, C215, C228, C234, C406, C407, C505	1µF 16V 10% XSR	C160805R1C1050B05A	C0403	Top, Bottom	19
CA0005		C122, C123, C124, C125, C126, C127	10µF 35V 10% XSR	C201205R1V10M125AC	C0805	Top	6
CA0006		C202, C216, C236, C237	22µF 35V 20% XSR	C3746S07Y22M1050C	C1206	Top	4
CA0007		C509	47µF 16V 20% XSR	DMC2346A747M00P	C1210	Top	1
CA0008		C504, C508, C509	10µF 16V 20% XSR	GRM188R07C10M040L0	C0603	Top	3
CA0009		C109, C111, C229, C235	2.2µF 35V 10% XSR	C160805Y2250B04C	C0403	Top, Bottom	4
CA0010		C504, C507	100nF 16V 10% X7R	CDM150R7C100M040B	C0402	Top	2
CA0011		C502	100µF 16V 20% 15mΩ 4000mA	16VPG100M	EC_86	Top	1
CA0012		C201, C401, C402, C501	330µF 16V 20% 14mΩ 4100mA	16VPG1330M	EC_87	Top	4
CA0013		C217	10nF 16V 10% X7R	GR1150R7C10B05010	C0402	Bottom	1
CA0024		C101, C102, C103, C104	10µF 6.3V 10% X7R	GRM320R710M0A12	C1210	Top	4
CA0025		C105, C106	10µF 25V 10% XSR	CL31A10M0A00N0E	C1206	Top	2
CA0027		C225, C231	1µF 600V 15% X7R	GRM320R70A10B0A01	C1210	Bottom	2
CA0028		C224, C226, C230, C232	100nF 100V 15% X7R	GRM320R72A10M0A01	C1210	Bottom	4
CA0029		C107, C128, C218, C219, C220, C221, C222, C223	100nF 50V 10% X7R	CL4A20307H10M050BB	C0402	Top	8
CA0030		C130	1.2nF 50V 10% X7R	CDM150R7H120A1210	C0402	Top	1
CA0031		C121, C129	1nF 50V 1% COG	GR1155C1H102F040D	C0402	Top	2
CO0007		C0502	HEM8	10024449	CO408	Top	1
CO0012		J501, J502, J503, J504, J505, J506	Header 1x2P	C8000030401810	YCP_2_54mm	Top	6
CO0015		J101	DC Jack 36V 4P10A	PI-802BH	PI_082BH	Top	1
CO0016		C0101	SD300G-LR	407180002	SD13000	Top	1
CO0025		CO301, CO302, CO303, CO501	USB C connector	USB4500-03-1-A	USB4500-03-1-A	Top	4
CO0027		CO503	µSD-Card holder	40007030811	40007030811	Top	1
CO0036		C001	25MHz 3.3V SMDPMM	ASR-25.000MHz 4C-1	ASR_XX 6 400716-11	Bottom	1
DI0001		D207, D502, D503, D504, D505, D506	Led Green	RP-30125C0X	4x03895	Top	6
DI0002		D201, D202, D203, D501	USB 2 TVS Diode	TPD2EUSB30DTR	S01-3	Top	4
DI0007		D204, D205, D206	USB 3 TVS Diode	PUS30FA22	S01-1176-1	Top	3
DI0008		D101	Zener Diode 36V 200mW	BT102C340	EC0-322	Top	1
F0004		F101	52V/10A	C1910	F1206	Top	1
F0005		F105	65V/2A	9F-1206A500M-2	F1206	Top	1
F0006		F106	65V/3A	9F-1206A500M-2	F1206	Top	1
F0007		F108	65V/0.5A	9F-1206A500M-2	F1206	Top	1
I00007		IC104	DC-DC 12Vin-3.3Vout/3A	HEZ071203A.F	HEZ071203A-x	Top	1
I00009		IC502	Buffer IC	91W14M10C07000V1	S01-23-5	Top	1
I00011		IC501	RT9142SGV	RT9142SGV	S01-23	Top	1
I00014		IC201	USB Interface, USB Hub Controller, USB 3.0	USB0314B-10002X	GFN-64	Top	1
I00022		IC103	DC-DC 12Vin-5Vout/2A	HEZ071203A.G	HEZ071203A-x	Top	1
I00023		IC105	DC-DC 4.8Vin-1.2Aout/0.1A	TPS64010PRT	TPS6410	Top	1
I00024		IC101	DC-DC 36Vin-12Vout/3A	RPW812-3-0	RPW813	Top	1
I00028		IC203, IC204	USB Type-C Power Delivery Controller	RCV920C1T-42	SCP-16	Bottom	2
I00029		IC503	RT9142 High side power switch	RT9142SG5G	S01-23-5	Top	1
I00031		IC102	3.6V 10-40V INPUT, 5A LOW IN SYNCHRONOUS BUCK WITH	RPW4010P-13	SCP-8-4P	Top	1
IN0004		L101	2.2µF 3A	WES4018T2R200G01	WES4018	Top	1
IN0005		L102	3.3µF 5A 30% 21mΩ	SRW6405A-30T	SRW6405A	Top	1
ME0002		H1, H2, H3, H4	Mounting Hole IM		HOLE_3M	Top	4
ME0004		Loop GTS	Loop GTS 1		Loop-GTS-1	Top	1
ME0005		Loop FdLnd	Loop FdLnd 2		Loop-FdLnd_2	Top	1
ME0011		Fid1, Fid3, Fid6, Fid8	Fiducial Round 1mm		FidR_1.0mm	Top, Bottom	4
ME0012		Fid2, Fid4, Fid5, Fid7	Fiducial Square 1mm		FidS_1.0mm	Top, Bottom	4
MO0011		MO507	Outline of CMM	RPI-0M	RPI0M_Layout	Top	1
MO0012		MO501	RPI CMM Pin 1-100	DF40H4C3-D-10005-0-4V	CMM_001-100	Top	1
MO0013		MO502	RPI CMM Pin 101-200	DF40H4C3-D-10005-0-4V	CMM_101-200	Top	1
MO0014		MO503, MO504, MO505, MO506	RPI CMM Mounting Studs	9774K30151R	CMM-M	Top	4
MO0015		MO406	Outline of ZeroW	RPI-ZeroW	RPIZeroW_Layout	Top	1
MO0016		MO402, MO403, MO404, MO405	RPI ZeroW Mounting Studs	9774K30151R	CMM-M	Top	4
MO0017		MO401	RPI ZeroW Header 1-40	960000236240	RPIZeroW_Pins	Top	1
RS0001		R211, R501, R505, R506, R507, R509, R201, R204, R207, R208	1500 1% 100mW	MCW0504R1500FTL	R0403	Top	6
RS0002		R202	4.7KΩ 1% 100mW	WR0404107FTL	R0403	Bottom	4
RS0003		R101, R103, R202, R203, R214, R216, R217, R218, R219, R504	10KΩ 5% 100mW	WR0404103 JTL	R0403	Top, Bottom	10
RS0007		R102, R104	100Ω 1% 100mW	WR04041009FTL	R0403	Top	2
RS0011		R512	10KΩ 1% 62.5mW	WR04041009FTL	R0402	Top	1
RS0014		R212, R213	100KΩ 1% 100mW	RC0402RFR-07100KL	R0403	Top	2
RS0015		R105, R215, R508	12KΩ 1% 62.5mW	RC0402RFR-1312KL	R0402	Top	3
RS0020		R502, R503	2.2KΩ 5% 62.5mW	AC0402R022JTL	R0402	Top	2
RS0032		R205, R206	10mΩ 1% 100mW 100PPM	AC0402RFR-0710KL	R0403	Bottom	2
RS0033		R510	22KΩ 1% 62.5mW 100PPM	MCW040222JTL	R0402	Top	1
RS0034		R106	20KΩ 1% 100mW 100PPM	EB1501F200KL	R0402	Top	1
RS0035		R107	2.2KΩ 1% 62.5mW 100PPM	RC0402R022JTL	R0402	Top	1
RS0037		R511	1KΩ 5% 62.5mW 100PPM	RC0402RFR-0710KL	R0402	Top	1
RS0038		R209	5.1KΩ 1% 62.5mW 100PPM	RC0402R0510B02C	R0402	Top	1
SW0001		SW501, SW502	Miniature Slide Switch	DS-10011M5C001	DS10-Series	Top	2
TR0002		TR202, TR203	40V/11mΩ-Mosfet N 10A	RO3C10050NB	45MT-6	Bottom	2
TR0007		TR101	24V PNP-E	45PZ10061A	S01-223	Top	1
TR0008		TR501	30V, N-channel Trench MOSFET	94M200N	S01-23	Top	1

Approved

Notes