

Bill of Materials

Project Number: P234
 Project Revision: 0.3
 Project File Name: BAS_DevKIT_PjPcb
 Assembly Variant: None
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Part Number	GTS	Designator	Description	Manufacture Part Number	Footprint	Layer	Quantity	
CA0001		C110, C112, C113, C114, C117, C118, C119, C120, C203, C207, C404, C405	10µF 16V 10% XSR	GRM218R81C106M15L	C0805	Top	12	
CA0002		C227, C233	4.7µF 16V 10% XSR	C1408R081C47K0808AC	C0603	Bottom	2	
CA0003		C115, C116, C204, C205, C206, C208, C209, C210, C211, C212, C213, C214, C215, C216, C228, C234, C406, C407, C505	1µF 16V 10% XSR	C1408R081C105K0808AA	C0603	Top, Bottom	19	
CA0005		C122, C123, C124, C125, C126, C127	10µF 35V 10% XSR	C2012SR1V10MKT25AC	C0805	Top	6	
CA0007		C503	47µF 16V 20% XSR	EMC25AB474MMNP	C1210	Top	1	
CA0008		C504, C508, C509	10µF 16V 20% XSR	GRM188R81C10M4MALD	C0603	Top	3	
CA0009		C109, C111, C229, C235	2.2µF 35V 10% XSR	C1408R081V22K4080AC	C0603	Top, Bottom	4	
CA0010		C506, C507	100nF 16V 10% X7R	CGM155R71C104K03D0	C0402	Top	2	
CA0011		C502	100µF 16V 20% 15mQ 4000mA	165WPC100M	EC_86	Top	1	
CA0012		C201, C202, C401, C402, C501	330µF 16V 20% 16mQ 4100mA	165WPC330M	EC_17	Top	5	
CA0013		C217	10nF 16V 10% X7R	GRT155R71C10K03D1D	C0402	Bottom	1	
CA0024		C101, C102, C103, C104	10µF 63V 10% X7R	GRM32ER71J06MKT2	C1210	Top	4	
CA0025		C105, C106	10µF 25V 10% XSR	CL31A106AAH9NNE	C1206	Top	2	
CA0027		C225, C231	1µF 100V 15% X7R	GRM52ER72A105K0801	C1210	Bottom	2	
CA0028		C224, C226, C230, C232	100nF 100V 15% X7R	GRM52MR72A104K0801	C1210	Bottom	4	
CA0029		C107, C128	100nF 50V 10% X7R	CGA2B3C7R1H104G050B8	C0402	Top	2	
CA0030		C130	1.2nF 50V 10% X7R	CGM155R71H122M03D1D	C0402	Top	1	
CA0031		C121, C129	1nF 50V 1% COG	GRT155SC71H05TAC02B	C0402	Top	2	
CD0007		C50502	HDMI		10029449	HDMI	Top	1
CD0012		J501, J502, J503, J504, J505, J506	Header 1x2P	SR090306010EU	1XCP_2 54mm		Top	6
CD0015		J101	DC Jack 36V @10A	PJ-0828H	PJ-0828H		Top	1
CD0016		C0701	SD3000-1R	SD3000-1R	657180003		Top	1
CD0021		C0301, C0302, C0303	USB4070 30-C	USB4070-30-C	USB4070-30-C		Top	3
CD0025		C0501	USB C connector	USB4500-03-1-A	USB4500-03-1-A		Top	1
CD0027		C0503	40-SD-card holder		4-930716-11	4-930716-11	Top	1
CR0006		X201	250MHz 3.3V 50PPM	ASE-25-000MHz_4C-1	ASE-XX	Bottom	1	
DI0001		D207, D502, D503, D504, D505, D506	Led Green	KP-2012C25K	LED0805		Top	6
DI0002		D201, D202, D203, D501	USB 2 TVS Diode	TPD2E1USB300R1R	SOT-3		Top	4
DI0007		D204, D205, D206	USB 3 TVS Diode	PVUSB3FA22	SOT-1176-1		Top	3
DI0008		D101	Zener Diode 36V 200mW	BV75C365	SOD_323		Top	1
F0004		F101	32V/10A	C1310	F1206		Top	1
F0005		F103	65V/2A	SF-1206SA200M-2	F1206		Top	1
F0006		F104	65V/3A	SF-1206SA300M-2	F1206		Top	1
F0007		F105	65V/0.5A	SF-1206SA050M-2	F1206		Top	1
IC0007		IC104	DC-DC 12Vin-3.3Vout/3A	mE1D71203A-F	mE1D71203A-F		Top	1
IC0009		IC502	Buffer IC	SN7ALVC00100WVT	SOT-23.5		Top	1
IC0011		IC501	R79F425AGV	R79F425AGV	SOT-23		Top	1
IC0014		IC201	15B8534B	US8534B-10002X	DFN-44		Top	1
IC0022		IC103	DC-DC 12Vin-5Vout/2A	mE1D71203A-G	mE1D71203A-F		Top	1
IC0023		IC105	DC-DC 4.8Vin-1.26Vout/0.6A	TPS62A750P1	TPS62A7x		Top	1
IC0024		IC101	DC-DC 36Vin-12Vout/3A	PRM812-1.0	PRM81		Top	1
IC0028		IC203, IC204	USB Type-C Power Delivery Controller	RO9W071F-42	RO-16	Bottom	2	
IC0029		IC503	R79F425G5	R79F425G5	SOT-23.5		Top	1
IC0031		IC102	3.8V TO 40V INPUT, 5A LOW IQ SYNCHRONOUS BUCK WITH	AP44501P-13	SO-8-EP		Top	1
IN0004		L101	NRS4018T2R2MDGJ	NRS4018T2R2MDGJ	NRS4018		Top	1
IN0005		L102	3.3µH 5A 30% 21mQ	SRW64051A-3K3P	SRW64051A		Top	1
ME0002		H1, H2, H3, H4	Mounting Hole MM		K052_M4		Top	4
ME0004		Logo GTS	Logo GTS 1		Logo_GTS_1		Top	1
ME0006		Logo FxLand	Logo FxLand 2		Logo_FxLand_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 CMA	RR CMA	RR-CMA_Layout		Top	1
MO0012		MO501	RPI CMA Pin 1-100	DF49K12-09-10005-0-4V	CMA_001-100		Top	1
MO0013		MO502	RPI CMA Pin 101-200	DF49K12-09-10005-0-4V	CMA_101-200		Top	1
MO0014		MO503, MO504, MO505, MO506	RPI CMA Mounting Studs	9774403151R	CMA-M		Top	4
MO0015		MO406	Outline of ZeroW	RR Zero W	RRZeroW_Layout		Top	1
MO0016		MO402, MO403, MO404, MO405	RPI ZeroW Mounting Studs	9774403151R	CMA-M		Top	4
MO0017		MO401	RPI ZeroW Pin 1-40		41304021121	RRZeroW_Pins	Top	1
RS0001		R211, R501, R505, R506, R507, R509	150Q 1% 100mW	MCMR06M150DFTL	R0603		Top	6
RS0002		R201, R204, R207, R208	4.7KQ 1% 100mW	WR04K4701FTL	R0603		Bottom	4
RS0003		R101, R103, R202, R203, R214, R504	10KQ 5% 100mW	WR06K10J JTL	R0603		Top, Bottom	6
RS0007		R102, R104	100Q 1% 100mW	WR04K100FTL	R0603		Top	2
RS0011		R512	10KQ 1% 62.5mW	WR04K1001FTL	R0402		Top	1
RS0014		R212, R213	100KQ 1% 100mW	RC0603F8-07000K	R0603		Top	2
RS0015		R105, R215, R508	12KQ 1% 62.5mW	RC0402F8-1312KL	R0402		Top	3
RS0020		R502, R503	2.2KQ 5% 62.5mW	MCMR04K222 JTL	R0402		Top	2
RS0032		R205, R206	10mQ 5% 100mW 100PPM	RC0402LR-1010ML	R0603		Bottom	2
RS0033		R209, R210, R510	22KQ 1% 62.5mW 100PPM	MCMR04K222DFTL	R0402		Top	3
RS0034		R106	20KQ 1% 100mW 100PPM	ERJ-30ZF2002F	R0402		Top	1
RS0035		R107	2.2KQ 1% 62.5mW 100PPM	CRG020400F2K2	R0402		Top	1
RS0037		R511	1KQ 5% 62.5mW 100PPM	RC0402LR-131KL	R0402		Top	1
SW0001		SW501, SW502	Miniature Slide Switch	D518201TM202N1	D518_Series		Top	2
TR0002		TR020, TR023	40V/10mA-Mosfet N 10A	RC01020000R1R	4-MSM-8	Bottom	2	
TR0007		TR101	30V-PNP-E	ZVP2106A1A	SOT-223		Top	1
TR0008		TR501	30 V, N-channel Trench MOSFET	PMV2030NE	SOT-23		Top	1

Approved

Notes