

Bill of Materials

Project Number: P234
Project Revision: 0.2
Project File Name: BAS_DevKIT_PyPcb
Assembly Variant: None
Report Date: 22/01/25

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Part Number GTS	Designator	Description	Manufacturer Part Number	Layer	Quantity
CA0024	C101, C102, C103, C104	10µF 63V 10% X7R	GRM32ER71J10KAA12		4
CA0025	C105, C106	10µF 25V 10% X5R	CL31A106AHANNE		2
CA0029, CA0010	C107, C128, C504, C507	100nF 50V 10% X7R, 100nF 16V 10% X7R	CGA2B3K7R1H104K050BB, GCM155R71C104KAS5D		4
CA0009	C109, C111, C229, C235	2.2µF 35V 10% X5R	C1608XR1V225K080AC		4
CA0001, CA0005	C110, C112, C113, C114, C117, C118, C119, C120, C122, C123, C124, C125, C126, C127, C203, C207, C404, C406	10µF 16V 10% X5R, 10µF 35V 10% X5R	GRM21BR61C104KE15L, C2012XR1V106K125AC		18
CA0003	C115, C116, C204, C206, C206, C208, C209, C210, C211, C212, C213, C214, C215, C216, C228, C234, C406, C407, C505	1µF 16V 10% X5R	C1608XR1C105K080AA		19
CA0031	C121, C129	1nF 50V 1% C0G	GRT1155C1V100FA00D		2
CA0030	C130	1.2nF 50V 10% X7R	GCM155R71H12KA37D		1
CA0012	C201, C202, C401, C402, C501	330µF 16V 20% 16mΩ 4100mA	165VPG1300KX		5
CA0013	C217	10nF 16V 10% X7R	GRT155R71C104K01D		1
CA0028	C224, C226, C230, C232	100nF 100V 15% X7R	GRM22MR72A104KA01		4
CA0027	C225, C231	1µF 100V 15% X7R	GRM32ER72A105KA01		2
CA0002	C227, C233	4.7µF 16V 10% X5R	C1608XR1C475K080AC		2
CA0011	C502	100µF 16V 20% 15mΩ 4000mA	165VPG100M		1
CA0007	C503	47µF 16V 20% X5R	EMK325AB476MMMP		1
CA0008	C504, C506, C509	10µF 16V 20% X5R	GRM325AB105MAALD		3
CO0016	CO101	30300G-UR	627180002		1
CO0021	CO301, CO302, CO303	USB4070-30-C	USB4070-30-C		3
CO0025	CO501	USB C connector	USB4500-03-1-A		1
CO0007	CO502	ROMM	80294W		1
CO0027	CO503	µSD Card holder	6.980715-11		1
DI0008	D101	Zener Diode 38V 200mW	B7T15C3AS		1
DI0002	D201, D202, D203, D501	USB 2 TVS Diode	TPD3EUSB30RTR		4
DI0007	D204, D205, D206	USB 3 TVS Diode	PUS3BFA2Z		3
DI0001	D207, D502, D503, D504, D505, D506	Led Green	KP-2012CGDK		6
F0004	F101	32V/10A	CH10		1
F0005	F103	65V/2A	SF-1206SA200M-2		1
F0006	F104	65V/3A	SF-1206SA300M-2		1
F0007	F105	65V/0.5A	SF-1206SA050M-2		1
ME0011	Fid1, Fid3, Fid6, Fid8	Fiducial Round 1mm			4
ME0012	Fid2, Fid4, Fid5, Fid7	Fiducial Square 1mm			4
ME0002	H1, H2, H3, H4	Mounting Hole M4			4
IC0004	IC101	DC-DC: 36Vin-12Vout/2A	BPMB13-3.0		1
IC0001	IC102	3.8V TO 40V INPUT, 5A LOW IQ SYNCHRONOUS BUCK WITH	APA401SP-13		1
IC0022	IC103	DC-DC: 12Vin-5Vout/2A	mE2D7120A-G		1
IC0007	IC104	DC-DC: 12Vin-3.3Vout/3A	mE2D7120A-F		1
IC0023	IC105	DC-DC: 4.8Vin-1.26Vout/0.6A	TPS626730PT		1
IC0014	IC201	USB5534B	USB5534B-5000X		1
IC0028	IC203, IC204	USB Type-C Power Delivery Controller	BD91N21C-E2		2
IC0011	IC501	RT9742SNGV	RT9742SNGV		1
IC0009	IC502	Buffer IC	SN74VHC1G07DBVT		1
IC0029	IC503	RT9742 High side power switch	RT9742GGL5		1
CO0015	J501, J502, J503, J504, J505, J506	DC Jack 36V @10A	PS-0B2BH		1
CO0012	L101	Header 1x2P	G800W36A018EU		6
IN0004	L101	NRS4018T2R2MDGJ	NRS4018T2R2MDGJ		1
IN0005	L102	3.3µH 5A 30% 21mΩ	SRN6045TA-3R3Y		1
ME0006	Logo FxLand	Logo FxLand 2			1
ME0004	Logo GTS	Logo GTS 1			1
MC0004	MD401	Raspberry Pi Zero Wireless	1x BPI Zero W / 4x 97740301518		1
MC0012	MD501	RPI CM4 Pin 1-100	DF40KCL3.0-100D5-0.4V		1
MC0013	MD502	RPI CM4 Pin 101-200	DF40KCL3.0-100D5-0.4V		1
MC0014	MD503, MD504, MD505, MD506	RPI CM4 Mounting Studs	97740301518		4
MC0011	MD507	Outline of CMM	89Y CM4		1
RS0003	R101, R103, R202, R203, R214, RS04	10KΩ 5% 100mW	WR06X103 JL		6
RS0007	R102, R104	100Ω 1% 100mW	WR06X1000FTL		2
RS0015	R105, R215, RS08	12KΩ 1% 62.5mW	RC0402R-1312XL		3
RS0004	R106	20KΩ 1% 100mW 100PPM	GRJ402R-20K2		1
RS0005, RS0020	R107, RS02, RS03	2.2KΩ 1% 62.5mW 100PPM, 2.2KΩ 5% 62.5mW	GRJ020402F-2K2, MC0904K222 JTL		3
RS0002	R201, R204, R207, R208	4.7KΩ 1% 100mW	WR06X4701FTL		4
RS0032	R205, R206	10mΩ 5% 100mW 100PPM	RC0603R-1010ML		2
RS0033	R209, R210, RS10	2.8KΩ 1% 62.5mW 100PPM	MCWR04K220FTL		3
RS0001	R211, RS01, RS06, RS06, RS07, RS09	150Ω 1% 100mW	MCWR06X1500FTL		6
RS0014	R212, R213	100KΩ 1% 100mW	RC0603R-07100KL		2
RS0037	RS11	1KΩ 5% 62.5mW 100PPM	RC0402R-131KL		1
RS0011	RS12	10KΩ 1% 62.5mW	WR06X1000FTL		1
SW0001	SW501, SW502	Miniature Slide Switch	OS100011MS020N1		2
TR0007	TR101	36V-PMP-E	ZVP2106GTA		1
TR0002	TR202, TR203	40W/11mΩ-Mosfet N 10A	RC06100GNTB		2
TR0008	TR501	30 V, N-channel Trench MOSFET	PAU200NE		1
CR0006	XC01	25MHz 3.3V 50PPM	ASE-25.000MHz LC-T		1

Approved

Notes