Bill of Materials

Project Number: P234
Project Revision: 0.1
Project File Name: BAS_Tower1.PrjPcb
Assembly Variant: None
Report Date: 22/04/04

Part Number GTS	Designator	Description	Manufacture Part Number	Footprint	Layer	Quantity
CA0001	C13, C14, C15, C16	10µF 16V 10% X5R	GRM21BR61C106KE15L	C0805	Top	4
CA0002	C6, C7, C237, C243	4.7µF 16V 10% X5R	C1608X5R1C475K080AC	C0603	Top	4
CA0003	C107, C204, C205, C206, C207, C208, C209, C210, C211, C213, C214, C215, C216, C217, C218, C219, C220, C221, C238, C244	1µF 16V 10% X5R	C1608X5R1C105K080AA	C0603	Top, Bottom	20
CA0005	C18, C19, C20, C21, C22, C23, C25, C26, C27, C28, C29, C30	10µF 35V 10% X5R	C2012X5R1V106K125AC	C0805	Top	12
CA0007	C103, C104, C105, C201, C202, C203, C212	47µF 16V 20% X5R	EMK325ABJ476MM8P	C1210	Top, Bottom	7
CA0008	C101, C102, C106	10µF 16V 20% X5R	GRM188R61C106MAALD	C0603	Top	3
CA0009	C239, C245	2.2µF 35V 10% X5R	C1608X5R1V225K080AC	C0603	Top	2
CA0010	C110, C111, C246	100nF 16V 10% X7R	GCM155R71C104KA55D	C0402	Top, Bottom	3
CA0016	C232, C233	4pF 50V 0.25pF C0H	UMK105CH040CVHF	C0402	Top	2
CA0024	C4, C37	10µF 63V 10% X7R	GRM32ER71J106KA12	C1210	Top	2
CA0027	C1, C2, C3, C5, C235, C241	1µF 100V 15% X7R	GRM32ER72A105KA01	C1210	Top	6
CA0028	C234, C236, C240, C242	100nF 100V 15% X7R	GRM32NR72A104KA01	C1210	Top	4
CA0029	C9, C10, C24, C31, C222, C223, C224, C225, C226, C227, C229, C231	100nF 50V 10% X7R	CGA2B3X7R1H104K050BB	C0402	Top	12
CA0030	C33	1.2nF 50V 10% X7R	GCM155R71H122KA37D	C0402	Top	1
CA0031	C17, C32	1nF 50V 1% C0G	GRT155SC1H102FA02D	C0402	Top	2
CA0032	C108, C109, C228, C230	180nF 10V 10% X5R	GRM155R61A184KE19D	C0402	Top	4
CA0034	C36	680µF 50V 20%	UPW1H681MHD6	RL_1s_7.5_20	Top	1
CA0035	C11, C12, C38, C39, C42	22µF 10V 20% X5R	0805ZD226MAT2A	C0805	Top	5
CA0037	C8	10pF 50V 5% C0G	C0402JRNPO9BN100	C0402	Top	1
CA0038	C41	4.7µF 100V 10% X5R	HMK325BJ475KM-PE	C1210	Top	1
CA0039	C40	10µF 63V 10% X7R	CL32B106KMVNNWE	C1210	Top	1
CA0040	C35	3.3nF 50V 10% X7R	C0603KRX7R9BB332	C0603	Top	1
CA0041	C34	47pF 50V 5% C0G	C0603JRNPO9BN470	C0603	Top	1
CO0007	CO103	HDMI	10029449	HDMI	Top	1
CO0012	J101, J102, J103, J104	Header 1x2P	G800W3060188U	1X2P_2.54mm	Top	4
CO0017	COG1	USB C connector Plug	USB4151-GF-C	USB4151-GF-C	Bottom	1
CO0021	CO301, CO302	USB4070-30-C	USB4070-30-C	USB4070-30-C	Top	2
CO0025	CO1, CO102	USB C connector	USB4500-03-1-A	USB4500-03-1-A	Top	2
CO0027	CO101	µSD-Card holder	693071030811	6.93071E+11	Top	1
CR0002	X201	24MHz 4pF 20PPM	403W7240128M	403W	Top	1
DI0001	D101, D102, D104, D105, D106, D201, D202, D203, D204	Led Green	KP-2012CGCK	Led0805	Top	9
DI0002	D1, D3, D103, D301, D302	USB 2 TVS Diode	TPD2EUSB30DRTR	SOT-3	Top, Bottom	5
DI0007	D2, D4, D303, D304	USB 3 TVS Diode	PUSB3FA2Z	SOT-1176-1	Top, Bottom	4
IC0009	IC102	Buffer IC	SN74LVC1G07DBVT	SOT-23-5	Top	1
IC0011	IC103	RT9742SNGV	RT9742SNGV	SOT-23	Top	1
IC0028	IC202, IC203	USB Type-C Power Delivery Controller	BD93W21F-E2	SOP-16	Top	2
IC0029	IC101	RT9742 High side power switch	RT9742GGJ5	SOT-23-5	Top	1
IC0031	IC2	3.8V TO 40V INPUT, 5A LOW IQ SYNCHRONOUS BUCK WITH	APА4501SP-13	SO-8-EP	Top	1
IC0032	IC1	USB-interface IC USB TYPE-C POWER DELIVERY	BD93E11GWL	UCSP50L2C	Top	1
IC0034	IC201	USB-interface IC PCI-e USB3.0 Host Ctrl 3rd Gen	UPD720201K8-701-BAC-A	QFN-68	Top	1
IC0035	IC5	NON-ISOLATED DC SWITCHING REGULATOR	VXO7803-500	VXO7803	Top	1
IC0036	IC4	Non-Isolated DC/DC Converters 3.3V 500MA	R-78E3.3-0.5	SIP-3	Top	1
IC0037	IC3	DC-DC Switching Synchronous Buck Regulator, Adjustable, 3.8V-	APA4351CSP-13	SO-8-EP	Top	1
IC0038	IC204	8-Kbit serial SPI bus EEPROM with high-speed clock	M95080-WMN6TP	SO-8	Bottom	1
IN0005	L1, L2	3.3µH 5A 30% 21mΩ	SRN6045TA-3R3Y	SRN6045TA	Top	2
IN0015	L3	10µH 3.2A 30% 52mΩ	SRN6045TA-100M	SRN6045TA	Top	1
IN0016	L4	12µH 1.3A 20% 135mΩ	ASPI-4030S-120M-T	ASPI-4030S	Top	1
ME0001	H1, H2, H3, H4, H5	Mounting Hole M3		HOLE_M3	Top	5
ME0004	Logo GTS1	Logo GTS 1		Logo_GTS_1	Bottom	1
ME0006	Logo FxLand1	Logo FxLand 2		Logo_FxLand_2	Top	1
ME0011	Fid1, Fid2, Fid5, Fid6	Fiducial Round 1mm		FidR_1.0mm	Top, Bottom	4
ME0012	Fid3, Fid4, Fid7, Fid8	Fiducial Sqaure 1mm		FidS_1.0mm	Top, Bottom	4
ME0015	PP201, PP202, PP203, PP204, PP205, PP206, PP207, PP208	Programmingpoint		PP_2MM	Bottom	8
MO0011	MO107	Outline of CM4	RPI CM4	RPICM4_Layout	Top	1
MO0012	MO101	RPI CM4 Pin 1-100	DF40HC(3.0)-100DS-0.4V	CM4_001-100	Top	1
MO0013	MO102	RPI CM4 Pin 101-200	DF40HC(3.0)-100DS-0.4V	CM4_101-200	Top	1
MO0014	MO103, MO104, MO105, MO106	RPI CM4 Mounting Studs	9774030151R	CM4-M	Top	4
RS0001	R102, R103, R108, R109, R110, R205, R206, R207, R208	150Ω 1% 100mW	MCWR06X1500FTL	R0603	Top	9
RS0003	R106, R209, R211	10KΩ 5% 100mW	WR06X103.JTL	R0603	Top	3
RS0006	R107	0Ω 100mW	WR0x00000FTL	R0603	Top	1
RS0007	R5	100Ω 1% 100mW	WR06X1000FTL	R0603	Top	1
RS0011	R12, R111, R112, R113, R114, R201, R202, R203, R204, R214	10KΩ 1% 62.5mW	WR04X1002FTL	R0402	Top, Bottom	10
RS0014	R10	100KΩ 1% 100mW	RC0603FR-07100KL	R0603	Top	1
RS0015	R6, R101	12KΩ 1% 62.5mW	RC0402FR-1312KL	R0402	Top	2
RS0020	R104, R105	2.2KΩ 5% 62.5mW	MCMR04X222.JTL	R0402	Top	2
RS0032	R210, R212	10mΩ 5% 100mW 100PPM	RC0603JR-1010ML	R0603	Top	2
RS0034	R8	20KΩ 1% 100mW 100PPM	ERJ-5S2F2002X	R0402	Top	1
RS0035	R11, R213	2.2KΩ 1% 62.5mW 100PPM	CRGCQ0402F2K2	R0402	Top	2
RS0036	R3	100KΩ 1% 62.5mW 100PPM	AC0402FR-13100KL	R0402	Top	1
RS0037	R13	1KΩ 5% 62.5mW 100PPM	RC0402JR-131KL	R0402	Top	1
RS0038	R14, R15	5.1KΩ 1% 62.5mW 100PPM	CRCW04025K10FKEDC	R0402	Top	2
RS0039	R1, R2	3.3KΩ 1% 62.5mW 100PPM	RC0402FR-1333CL	R0402	Top	2
RS0043	R7	31.2KΩ 0.5% 62.5mW 25PPM	RN731ETTP3122D25	R0402	Top	1
RS0044	R9	2.94KΩ 1% 100mW 100PPM	CRCW06032K94FKEA	R0603	Top	1
RS0045	R16	200KΩ 1% 62.5mW 100PPM	CRG0402F200K	R0402	Bottom	1
RS0047	R18, R20	150KΩ 1% 62.5mW 100PPM	SFR01M2PF1503	R0402	Bottom	2
RS0050	R17, R19	68KΩ 1% 62.5mW 100PPM	CRG0402F68K	R0402	Bottom	2
SW0001	SW101	Miniature Slide Switch	OS102011MS2QN1	OS10_Series	Top	1
TR0002	TR201, TR202	40V/11mΩ-Mosfet N 10A	RQ3G100GNTB	HSMT-8	Top	2
TR0009	TR1, TR2	30V, N-channel Trench MOSFET	FDMS7660	POFN8-SX6	Top	2

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Approved	Notes