## RAB4-RTK Rev0 BOM

Part Description	Specification	Value	Designator	Footprint	Quantity	Manufacturer	Manufacturer Part No.	Supplier	Supplier part number
Ceramic Capacitor	X5R, 6.3V, 10%	1uF	<u> </u>	C0402	Quantity 4	Samsung EM	CL05A105KQ5NNNC		KKK18264
Ceramic Capacitor	NP0, 50V, 5%	33pF		C0402	38	AVX	04025A330JAT2A		KKK13594
Coromia Consoitor	V7D 25V 100/	4.7nF	Co	C0402	1	KEMET	C0402C472K3RAC7867	Dutropile	KKK26721
Ceramic Capacitor Ceramic Capacitor	X7R, 25V, 10% X7R, 50V, 10%	100nF	C8 C13, C16, C18, C20, C23, C24, C28, C32, C36, C38, C40, C45, C46, C53, C56, C63, C64, C65, C66, C71, C72, C73, C74, C79, C80, C81, C82, C87, C88, C89, C90		31	Yageo	CC0402KRX7R9BB104		KKK23619
L						1000		<u> </u>	
Niobium Oxide Capacitor Ceramic Capacitor	6.3V, 20% X5R, 6.3V, 10%	22uF	C14 C15, C29, C33, C35, C37, C41, C62	Case-B C0805	7	AVX Samsung EM	NOJB476M006RWJ CL21A226KQQNNNG		KTA6684 KKS2632
Ceramic Capacitor	NP0, 50V, 5%	100pF	C17, C19, C21, C25, C42	C0402	5	Yageo	CC0402JRNPO9BN101	Rutronik	KKK12260
Polymer Electrolytic Capacitor	6,3V 20%	220uF	C26	Case-B	1	KEMET	T520B227M006ATE070		KTA8521
Ceramic Capacitor	X7R, 50V, 5%	330pF		C0402	1	Yageo	CC0402KRX7R9BB331		KKK15237
Tantalum Capacitor	6,3V 20%	1000uFx6.3V		7361-38	1	AVX	TPSV108M006R0040		KTA6307
Nano SIM Holder TVS Diode	6 pins 5V, 0.225kW	104224-0820 DFLT5V0A-7		104224-0820 PowerDI123	1	molex Diodes Inc.	104224-0820 DFLT5V0A-7		SIMCRD1016 DTRL9639
TOPLED® E1608	GREEN, 20mA	KGDELLS1.22-JGKH-24-0-2-S		KG DELLS GREEN	3	OSRAM	KGDELLS1.22-JGKH-24-0-2-S		
Small signal Schottky diode	30V, 0.2A	BAT54WT-7	<u>' '</u>	SOD-523	2	Diodes Inc.	BAT54WT-7	_	DSKY5741
ESD Diode	0.25pF, 14V	PESD0402-140	D5, D8	PESD0402	2	Littelfuse	PESD0402-140	Rutronik	DTRL11783
High I <sup>2</sup> t Chip fuse	32V, 2A	CC12H2A-TR	<u> </u>	FUSE1206	2	EATON	CC12H2A-TR		FUSE10755
Inductor	5%, 180mA	68nH	L1, L2	L0402	2	MuRata	LQG15HN68NJ02D	_	IND10329
Ferrite Bead	120R, 2A	BLM18PG121SH1D	L3	L0603	1	muRata	BLM18PG121SH1D	Rutronik	
Arduino Connector USB C DUAL SMT ON BOARD	10 pos. 2,54mm 5A, 20V, 16-pin	RS1-A5-10-G-SGM394-HT DX07S016JA1R1500		HDR1X10_ARDUINC DX07S016JA1R1500		Adam Tech JAE	RS1-A5-10-G-SGM394-HT DX07S016JA1R1500		RS1-A5-10-G-SGM394-HT CONN3002
Arduino Connector	8 pos. 2,54mm	RS1-A5-08-G-SGM394-HT		HDR1X8_ARDUINO	2	Adam Tech	RS1-A5-08-G-SGM394-HT		RS1-A5-08-G-SGM394-HT
Arduino Connector	6 pos. 2,54mm	RS1-A5-06-G-SGM394-HT		HDR1X6 ARDUINO	1	Adam Tech	RS1-A5-06-G-SGM394-HT	_	RS1-A5-06-G-SGM394-HT
SMA Connector	Fermale	73391-0083		73391-0083	4	molex	73391-0083		73391-0083
N-Channel MOSFET	20V, 0.63A	DMG1012T-7	Q1, Q2, Q3, Q4, Q5, Q6, Q7	SOT-523_custom	7	Diodes Inc.	DMG1012T-7	Rutronik	TMOSS6623
Thick Film Resistor	5% 0,063W	1K		R0402	3	Yageo	RC0402JR-071KL	Rutronik	WRC33833
Thick Film Resistor	5% 0,063W	5.1K	,	R0402	2	ASJ	CR10-512-JK	_	WRC54946
Thick Film Resistor	5% 0,063W	10K	R4, R6, R8, R9, R10, R36, R37	R0402	7	ASJ	CR10-103-JK	Rutronik	WRC40976
Thick Film Resistor	5% 0,063W	1M		R0402	1	ASJ	CR10-105-JK		WRC35254
Thick Film Resistor Thick Film Resistor	1% 0,063W	75K 49.9K	R12 R13, R15, R18, R19,	R0402	1	ASJ	CR10-7502-FK RC0402FR-0749K9L		WRC50183 WRC34049
	1% 0,063W		R23		5	Yageo			
Thick Film Resistor Thick Film Resistor	1% 0,063W 1% 0,063W	150K 20K		R0402 R0402	1	Yageo ASJ	RC0402FR-07150KL CR10-2002-FN		WRC34764 WRC53526
Thick Film Resistor	1% 0,063W	470K		R0402	1	Yageo	RC0402FR-07470KL	_	WRC34703
Thick Film Resistor	5% 0,063W	0R		R0402	4	Yageo	RC0402JR-070RL		WRC34031
Low Capacitance Multilayer Varistor	18V, 4A, 15mJ	USB0002DP	RV1	USB0002	1	AVX	USB0002DP	Rutronik	WVDR3535
EVQPUC02K	1.6N, Right Angle, 50mA	EVQPUC02K		EVQPUA	2	Panasonic	EVQPUC02K	_	SWITCH10308
Thick Film Resistor	5% 0,063W	0R	SB1, SB2, SB4, SB5, SB6, SB7, SB8, SB9, SB10, SB11, SB12, SB13, SB14, SB15, SB16, SB17, SB18, SB19, SB20, SB21, SB22, SB23, SB24, SB25	SB_0402	24	Yageo	RC0402JR-070RL	Rutronik	WRC34031
VERTICAL MOUNT SMT - J BEND	6V DC, 0.3A	JS202011JCQN	SW1	JS202011JCQN	1	C&K	JS202011JCQN		SWITCH10809
SMT Test Point	3.81*2.03	P/N5019		5019_keystone	1	Keystone Electro			BAT4950
LTE C1 THREADX GNSS with 2G/3G Fallback	LTE C1, 2G, 3G	LE910C1WX03T037100		XCVR_LE910C1WX(	1 1	Telit Cinterion	LE910C1WX03T037100		GSM2137
RTK GNSS All-constellation Multi-frequency 2.0A Inductor Built-in Step-Down DC/DC Converter	3.3V, 180mA 6V, 2A	UM980 MYRGM080200X41RA	U2 U3	UM980 MYRGM080200	1 1	UNICORE COMM MuRata	MYRGM080200X41RA		GPS1468 MYRGM080200X41RA
Inductor Built-in Step-Down "mini DC/DC Converter	6V, 600mA	MYRGP080060W21RF		MYRGP080060	1	MuRata	MYRGP080060W21RF		MYRGP080060W21RF
Load Switch IC with Over current limited function	0.4A, 5.5V	TCK22946G,LF		WCSP6E	1	TOSHIBA	TCK22946G,LF		ICGDRV1398
Single Bit Voltage Level Translator	5.5V, 1.65V	74LVC1T45FZ4-7	U6, U8, U9, U10, U11, U12, U13, U14,	X2-DFN1410-6	9	Diodes Inc.	74LVC1T45FZ4-7		ICLOG10841
150mA Ultra-Low Quiescent Current LDO with Enable	3.3V, 150mA	AP7354-33FS4-7	U15 U7	X2-DFN1010-4	1	Diodes Inc.	AP7354-33FS4-7	Rutropik	ICSPR10461
TOOTHA OTHER-LOW QUIESCETT CUITETT LDO WITH ETIABLE	JO.OV, TOUTHA	M 1007-001 04-1	Į U I	ハム-ロ   N  U  U-4	<u> </u>	וווני	Pil 1004-001:04-1	INGUIUN	1001 1110401