RAB4-RTK Rev1 BOM

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Part Description Ceramic Capacitor	Specification X5R, 6.3V, 10%	Value 1uF		Footprint C0402	Quantity 4	Manufacturer Samsung EM	Manufacturer Part No. CL05A105KQ5NNNC		Supplier part number KKK18264
							04025A330JAT2A		
Ceramic Capacitor	NP0, 50V, 5%	33pF	C3, C4, C5, C6, C9,	C0402	38	AVX	04025A330JAT2A	Rutronik	KKK13594
	'		C10, C11, C12, C22,						
	'		C27, C30, C31, C43,						
	'		C44, C47, C48, C49,						
	'		C50, C51, C52, C54,						
	'		C55, C57, C58, C59,						
	'		C60, C67, C68, C69,						
	'		C70, C75, C76, C77,						
	'		C78, C83, C84, C85,						
	'		C86						
	'								
	'								
Ceramic Capacitor	X7R, 25V, 10%	4.7nF	C8	C0402	1	KEMET	C0402C472K3RAC7867	Rutronik	KKK26721
Ceramic Capacitor	X7R, 50V, 10%	100nF	C13, C16, C18, C23,		30	Yageo	CC0402KRX7R9BB104		KKK23619
	, ,		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						
	'								
NELL COLLON	0.01/.055/	47.5	044			1410/	NO ID (ZOMOGOE)	D	LICTA COOL
Niobium Oxide Capacitor	6.3V, 20%	47uF	C14	Case-B	1 7		NOJB476M006RWJ		KTA6684
Ceramic Capacitor	X5R, 6.3V, 10%	22uF	C15, C29, C33, C35,	C0805	7	Samsung EM	CL21A226KQQNNNG	Rutronik	KKS2632
Operando Operandias	NDO FOLL FOL	100-5	C37, C41, C62	00400	-	V	000400 IDNIDOCONIA	Duta "	KKKKAOOOO
Ceramic Capacitor	NP0, 50V, 5%	100pF	C17, C19, C21, C25,	C0402	5	Yageo	CC0402JRNPO9BN101	Rutronik	KKK12260
Daharan Flantshiis On "	0.01/.000/	0005	C42	O B		KEMET	TEGODOGANOSATEST	D	I/TA 0504
Polymer Electrolytic Capacitor	6,3V 20%	220uF		Case-B	1	KEMET	T520B227M006ATE070		KTA8521
Ceramic Capacitor	X7R, 50V, 5%	330pF		C0402	1	Yageo	CC0402KRX7R9BB331		KKK15237
Tantalum Capacitor	6,3V 20%	1000uFx6.3V	C61	7361-38	1	AVX	TPSV108M006R0040		KTA6307
Nano SIM Connector	Push-Push	SF72S006VBDR2500	CON1	JAE_SF72S006VBDR2500	1	JAE	SF72S006VBDR2500		CONN9427
TVS Diode	5V, 0.225kW	DFLT5V0A-7		PowerDI123	1	Diodes Inc.	DFLT5V0A-7		DTRL9639
TOPLED® E1608				KG_DELLS_GREEN	3	OSRAM	KGDELLS1.22-JGKH-24-0-2-S		LEDATV1791
Small signal Schottky diode	30V, 0.2A	BAT54WT-7		SOD-523	2		BAT54WT-7		DSKY5741
ESD Diode	0.25pF, 14V	PESD0402-140		PESD0402	2	Littelfuse	PESD0402-140	Rutronik	DTRL11783
High I2t Chip fuse	32V, 2A	CC12H2A-TR	F1, F2	FUSE1206	2	EATON	CC12H2A-TR	Rutronik	FUSE10755
Inductor	5%, 180mA	68nH	L1, L2	L0402	2	MuRata	LQG15HN68NJ02D		IND10329
Ferrite Bead	120R, 2A	BLM18PG121SH1D	L3	L0603	1	muRata	BLM18PG121SH1D		FE3867
M3 Pan Head Machine Screw	M3, 6mm	P/N29341	NS1, NS2, NS3,	29311	4	Keystone Electronics	P/N 29341		BAT4868
INIO I GITTICAG MACHINIC COTOW	IVIO, OIIIIII	1714200-11	NS4	25011	-	Troyotorio Electroriido	1 /14 230-11	I COLI OT IIIC	B/11-1000
Arduino Connector	10 pos. 2,54mm	RS1-A5-10-G-SGM394-HT	P1	HDR1X10 ARDUINO	1	Adam Tech	RS1-A5-10-G-SGM394-HT	Rutronik	RS1-A5-10-G-SGM394-HT
USB-C 2.0 Waterproof Connector	5A. 30V	P/N 2130830005		MOLEX 2130830005	1		P/N 2130830005		CONN4956
Arduino Connector				HDR1X8 ARDUINO	2		RS1-A5-08-G-SGM394-HT		RS1-A5-08-G-SGM394-HT
Arduino Connector		RS1-A5-06-G-SGM394-HT	P4	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		DMG1012T-7	Q1, Q2, Q3, Q4, Q5,		7	Diodes Inc.	DMG1012T-7		TMOSS6623
IN-Charline MOSI ET	20V, 0.03A	DWG10121-7	Q6, Q7	301-323_custom	,	Diodes IIIc.	DIVIG TO 121-7	IXULIOIIIK	110000023
Thick Film Resistor	5% 0,063W	1K		R0402	3	Yageo	RC0402JR-071KL	Dutronik	WRC33833
Thick Film Resistor		5.1K		R0402	2	ASJ	CR10-512-JK		WRC54946
Thick Film Resistor	5% 0.063W	10K		R0402	7	ASJ	CR10-103-JK		WRC40976
THICK FIRM RESISTOR	370 0,003VV	TOIC	R10, R36, R37	110402	,	700	OK10-103-3K	IXULIOTIIK	W1040370
Thick Film Resistor	5% 0,063W	1M	R5	R0402	1	ASJ	CR10-105-JK	Dutronik	WRC35254
Thick Film Resistor	1% 0,063W	75K	R12	R0402	1	ASJ	CR10-7502-FK	Rutronik	
						•			
Thick Film Resistor	1% 0,063W	49.9K	R13, R15, R18, R19, R23	11.0402	5	Yageo	RC0402FR-0749K9L	KULIONIK	WRC34049
Thick Film Posicior	19/ 0.063\4/	1506		B0402	4	Vagos	DC0402ED 074E0V	Dutrani!	WPC24764
Thick Film Resistor		150K		R0402		Yageo	RC0402FR-07150KL		WRC34764
Thick Film Resistor		20K		R0402	1		CR10-2002-FN		WRC53526
Thick Film Resistor		470K		R0402	1		RC0402FR-07470KL		WRC34703
Thick Film Resistor	5% 0.063W	UR	R26, R27, R30, R33		4	Yageo	RC0402JR-070RL	Rutronik	WRC34031
Low Capacitance Multilayer Varistor		USB0002DP	RV1	USB0002	1	AVX	USB0002DP		WVDR3535
EVQPUC02K		EVQPUA02K		EVQPUA	2	Panasonic	EVQPUA02K		EVQPUA02K
Thick Film Resistor	5% 0,063W	0R		SB_0402	22	Yageo	RC0402JR-070RL	Rutronik	WRC34031
	'		SB5, SB6, SB7,						
	'		SB8, SB9, SB10,						
	'		SB11, SB12, SB13,						
	'		SB14, SB15, SB16,						
	1 '		SB17, SB18, SB19,					1	
	1 '		SB20, SB21, SB24,]		1	1	l	1
	1		SB25]			1	l	1
5mm Hex Female Standoff	M3, 15mm	P/N25512		24475	4	Keystone Electronics	P/N 25512	Rutronik	BAT6084
	1		SO4			'			
VERTICAL MOUNT SMT - J BEND	6V DC, 0.3A	JS202011JCQN	SW1	JS202011JCQN	1	C&K	JS202011JCQN	Rutronik	SWITCH10809
SMT Test Point	3.81*2.03	P/N5019	TP1	5019_keystone	1	Keystone Electronics	P/N5019		BAT4950
LTE C1 THREADX GNSS with 2G/3G Fallback		LE910C1WX03T037100		XCVR_LE910C1WX03T0371	1	Telit Cinterion	LE910C1WX03T037100		GSM2137
RTK GNSS All-constellation Multi-frequency	3.3V, 180mA	UM980	U2	UM980	1	UNICORE COMMUNICATIONS	UM980		GPS1468
2.0A Inductor Built-in Step-Down DC/DC Converter	6V, 2A	MYRGM080200X41RA	U3	MYRGM080200	1	MuRata	MYRGM080200X41RA		MYRGM080200X41RA
Inductor Built-in Step-Down "mini DC/DC" Converter	6V, 600mA	MYRGP080060W21RF	U4	MYRGP080060	1	MuRata	MYRGP080060W21RF		MYRGP080060W21RF
	1.54A, 5.5V								
Load Switch IC with Over current limited function	_	TCK1024G,LF		WCSP6E	1	TOSHIBA	TCK1024G,LF		TCK1024G,LF
Single Bit Voltage Level Translator	5.5V, 1.65V	74LVC1T45FZ4-7		X2-DFN1410-6	9	Diodes Inc.	74LVC1T45FZ4-7	Rutronik	ICLOG10841
	1		U11, U12, U13, U14,					1	
	 '		U15						
150mA Ultra-Low Quiescent Current LDO with Enable	3.3V, 150mA	AP7354-33FS4-7	U7	X2-DFN1010-4			AP7354-33FS4-7		ICSPR10461
Cellular 4G LTE/3G/2G Magnetic Mount Antenna	<u> </u>					1 2J			2J6924Ma-075D302-C899GRST_C899GRST
GPS/GNSS/SBAS/RTK/L1/L2 Antenna					1	1 2J			2J7C01MC2F-075LL100-C20NBST
GPS/GLONASS/BeiDou/QZSS/Galileo/IRNSS/L1/L5 Antenna					1	1 2J	2J7C01MC3F-075LL100-C20NBS	Rutronik	2J7C01MC3F-075LL100-C20NBST
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