RAB4-RTK Rev0 BOM

O ' - O ' (Specification	Value	Designator	· ·	Quantity		Manufacturer Part No.		Supplier part number
Ceramic Capacitor	X5R, 6.3V, 10%	1uF	C1, C2, C7, C39	C0402	4	Samsung EM	CL05A105KQ5NNNC		KKK18264
Ceramic Capacitor	NP0, 50V, 5%	33pF	C3, C4, C5, C6, C9, 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,	C0402	38	AVX	04025A330JAT2A	Rutronik	KKK13594
Ceramic Capacitor Ceramic Capacitor	X7R, 25V, 10% X7R, 50V, 10%	4.7nF 100nF	C86 C13, C16, C18, C20, C23, C24, C28, C32, C45, C45, C45, C45, C45, C45, C45, C45	C0402 C0402	1 31	KEMET Yageo	C0402C472K3RAC7867 CC0402KRX7R9BB104		KKK26721 KKK23619
			C36, C38, C40, C45, C46, C53, C56, C63, C64, C65, C66, C71, C72, C73, C74, C79, C80, C81, C82, C87, C88, C89, C90						
Niobium Oxide Capacitor	6.3V, 20%	47uF	C14	Case-B	1	AVX	NOJB476M006RWJ	Putronik	KTA6684
Ceramic Capacitor	X5R, 6.3V, 10%	22uF	C15, C29, C33, C35, C37, C41, C62	C0805	7	Samsung EM	CL21A226KQQNNNG	Rutronik	KKS2632
Ceramic Capacitor	NP0, 50V, 5%	100pF	C17, C19, C21, C25, C42		5	Yageo	CC0402JRNPO9BN101		KKK12260
Polymer Electrolytic Capacitor	6,3V 20%	220uF	C26	Case-B	1	KEMET	T520B227M006ATE070		KTA8521
Ceramic Capacitor	X7R, 50V, 5%	330pF	C34	C0402	1	Yageo	CC0402KRX7R9BB331		KKK15237
Tantalum Capacitor Nano SIM Holder	6,3V 20%	1000uFx6.3V 104224-0820	C61 CON1	7361-38 104224-0820	1	AVX molex	TPSV108M006R0040 104224-0820		KTA6307 SIMCRD1016
TVS Diode	6 pins 5V, 0.225kW	DFLT5V0A-7	15.4	PowerDI123	1		DFLT5V0A-7		DTRL9639
TOPLED® E1608	GREEN, 20mA	KGDELLS1.22-JGKH-24-0-2-S	D1 D2, D6, D7	KG DELLS GREEN	3	OSRAM	KGDELLS1.22-JGKH-24-0-2-S		
Small signal Schottky diode	30V, 0.2A	BAT54WT-7	D3, D4	SOD-523	2	Diodes Inc.	BAT54WT-7		DSKY5741
ESD Diode	0.25pF, 14V	PESD0402-140	D5, D8	PESD0402	2	Littelfuse	PESD0402-140		DTRL11783
High I ² t Chip fuse	32V, 2A	CC12H2A-TR	F1, F2	FUSE1206	2	EATON	CC12H2A-TR		FUSE10755
Inductor	5%, 180mA	68nH	L1, L2	L0402	2	MuRata	LQG15HN68NJ02D	Rutronik	IND10329
Ferrite Bead	120R, 2A	BLM18PG121SH1D	L3	L0603	1	muRata	BLM18PG121SH1D	Rutronik	FE3867
Arduino Connector	10 pos. 2,54mm	RS1-A5-10-G-SGM394-HT	P1	HDR1X10_ARDUINO	1	Adam Tech	RS1-A5-10-G-SGM394-HT		RS1-A5-10-G-SGM394-HT
USB C DUAL SMT ON BOARD		DX07S016JA1R1500	P2	DX07S016JA1R1500	1	JAE	DX07S016JA1R1500		CONN3002
Arduino Connector	8 pos. 2,54mm	RS1-A5-08-G-SGM394-HT	P3, P5	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	P4	HDR1X6_ARDUINO	1	Adam Tech	RS1-A5-06-G-SGM394-HT		RS1-A5-06-G-SGM394-HT
SMA Connector N-Channel MOSFET	Fermale 20V, 0.63A	73391-0083 DMG1012T-7	P6, P7, P8, P9 Q1, Q2, Q3, Q4, Q5, Q6, Q7	73391-0083 SOT-523_custom	7	molex Diodes Inc.	73391-0083 DMG1012T-7		73391-0083 TMOSS6623
Thick Film Resistor	5% 0,063W	1K	R1, R7, R21	R0402	3	Yageo	RC0402JR-071KL	Rutronik	WRC33833
Thick Film Resistor		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		WRC40976
Thick Film Resistor	5% 0,063W	1M	R5	R0402	1	ASJ	CR10-105-JK		WRC35254
Thick Film Resistor	1% 0,063W	75K	R12	R0402	1	ASJ	CR10-7502-FK		WRC50183
Thick Film Resistor	1% 0,063W	49.9K	R13, R15, R18, R19, R23		5	Yageo	RC0402FR-0749K9L		WRC34049
Thick Film Resistor Thick Film Resistor	1% 0,063W	150K 20K	R14 R16	R0402 R0402	1 1	Yageo ASJ	RC0402FR-07150KL CR10-2002-FN		WRC34764 WRC53526
Thick Film Resistor Thick Film Resistor	1% 0,063W 1% 0,063W	470K	R17	R0402 R0402	1	Yageo	RC0402FR-07470KL		WRC33526 WRC34703
Thick Film Resistor	5% 0,063W	0R	R26, R27, R30, R33		4	Yageo	RC0402JR-070RL		WRC34031
Low Capacitance Multilayer Varistor	18V, 4A, 15mJ	USB0002DP	RV1	USB0002	1	AVX	USB0002DP	Rutronik	WVDR3535
EVQPUC02K		EVQPUC02K	S1, S2	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, SB24,	SB_0402	22	Yageo	RC0402JR-070RL	Rutronik	WRC34031
			SB25		1	1	Î.	•	
VERTICAL MOUNT SMT - J BEND	6V DC. 0.3A	JS202011JCQN	SB25 SW1	JS202011.JCON	1	C&K	JS202011JCQN	Rutronik	SWITCH10809
VERTICAL MOUNT SMT - J BEND SMT Test Point	6V DC, 0.3A 3.81*2.03	JS202011JCQN P/N5019	SW1	JS202011JCQN 5019 keystone	1	C&K Keystone Electror	JS202011JCQN P/N5019		SWITCH10809 BAT4950
			SW1	JS202011JCQN 5019_keystone XCVR_LE910C1WX0	1 1			Rutronik	
SMT Test Point LTE C1 THREADX GNSS with 2G/3G Fallback RTK GNSS All-constellation Multi-frequency	3.81*2.03 LTE C1, 2G, 3G	P/N5019	SW1 TP1	5019_keystone	1 1 1 1	Keystone Electror	P/N5019 LE910C1WX03T037100	Rutronik Rutronik	BAT4950
SMT Test Point LTE C1 THREADX GNSS with 2G/3G Fallback RTK GNSS All-constellation Multi-frequency 2.0A Inductor Built-in Step-Down DC/DC Converter	3.81*2.03 LTE C1, 2G, 3G 3.3V, 180mA 6V, 2A	P/N5019 LE910C1WX03T037100 UM980 MYRGM080200X41RA	SW1 TP1 U1	5019_keystone XCVR_LE910C1WX0 UM980 MYRGM080200	1 1) 1 1	Keystone Electron Telit Cinterion UNICORE COMM MuRata	P/N5019 LE910C1WX03T037100 UM980 MYRGM080200X41RA	Rutronik Rutronik Rutronik Rutronik	BAT4950 GSM2137 GPS1468 MYRGM080200X41RA
SMT Test Point LTE C1 THREADX GNSS with 2G/3G Fallback RTK GNSS All-constellation Multi-frequency 2.0A Inductor Built-in Step-Down DC/DC Converter Inductor Built-in Step-Down "mini DC/DC" Converter	3.81*2.03 LTE C1, 2G, 3G 3.3V, 180mA 6V, 2A 6V, 600mA	P/N5019 LE910C1WX03T037100 UM980 MYRGM080200X41RA MYRGP080060W21RF	SW1 TP1 U1 U2 U3 U4	5019_keystone XCVR_LE910C1WX0 UM980 MYRGM080200 MYRGP080060	1 1) 1 1 1 1	Keystone Electron Telit Cinterion UNICORE COMM MuRata MuRata	P/N5019 LE910C1WX03T037100 UM980 MYRGM080200X41RA MYRGP080060W21RF	Rutronik Rutronik Rutronik Rutronik Rutronik	BAT4950 GSM2137 GPS1468 MYRGM080200X41RA MYRGP080060W21RF
SMT Test Point LTE C1 THREADX GNSS with 2G/3G Fallback RTK GNSS All-constellation Multi-frequency 2.0A Inductor Built-in Step-Down DC/DC Converter Inductor Built-in Step-Down "mini DC/DC" Converter Load Switch IC with Over current limited function	3.81*2.03 LTE C1, 2G, 3G 3.3V, 180mA 6V, 2A 6V, 600mA 0.4A, 5.5V	P/N5019 LE910C1WX03T037100 UM980 MYRGM080200X41RA MYRGP080060W21RF TCK22946G,LF	SW1 TP1 U1 U2 U3 U4 U5	5019_keystone XCVR_LE910C1WX0 UM980 MYRGM080200 MYRGP080060 WCSP6E	1 1 1 1	Keystone Electron Telit Cinterion UNICORE COMM MuRata MuRata TOSHIBA	P/N5019 LE910C1WX03T037100 UM980 MYRGM080200X41RA MYRGP080060W21RF TCK22946G,LF	Rutronik Rutronik Rutronik Rutronik Rutronik	BAT4950 GSM2137 GPS1468 MYRGM080200X41RA MYRGP080060W21RF ICGDRV1398
SMT Test Point LTE C1 THREADX GNSS with 2G/3G Fallback RTK GNSS All-constellation Multi-frequency 2.0A Inductor Built-in Step-Down DC/DC Converter Inductor Built-in Step-Down "mini DC/DC" Converter	3.81*2.03 LTE C1, 2G, 3G 3.3V, 180mA 6V, 2A 6V, 600mA	P/N5019 LE910C1WX03T037100 UM980 MYRGM080200X41RA MYRGP080060W21RF	SW1 TP1 U1 U2 U3 U4 U5	5019_keystone XCVR_LE910C1WX0 UM980 MYRGM080200 MYRGP080060	1 1 1 1 1 1 1 9	Keystone Electron Telit Cinterion UNICORE COMM MuRata MuRata	P/N5019 LE910C1WX03T037100 UM980 MYRGM080200X41RA MYRGP080060W21RF	Rutronik Rutronik Rutronik Rutronik Rutronik	BAT4950 GSM2137 GPS1468 MYRGM080200X41RA MYRGP080060W21RF