RAB7-SENSORFUSION Rev1 BOM

Part Description	Designator	Footprint	Quantity	Value	Specification	Manufacturer	Manufacturer Part No.	Supplier	Supplier part number
Tantalum Capacitor	C1	Case-B	1	47uFx6.3V	6V, 20%	Yageo KEMET	T494B476M006AT	Rutronik	T494B476M006AT
Ceramic Capacitor	C2, C3, C5, C6	C0402	4	1uF	X5R, 25V, 10%	Samsung EM	CL05A105KA5NQNC	Rutronik	KKS2216
Ceramic Capacitor	C4	C0402	1	10nF	X7R, 16V, 10%	Yageo	0402YC103KAT2A	Rutronik	KKK14804
Ceramic Capacitor	C7, C8, C9, C10, C11, C12, C13, C14, C15	C0402	9	100nF	X7R, 25V, 10%	AVX	04023C104KAT2A	Rutronik	KKK20175
Ceramic Capacitor	C16	C0402	1	2.2uF	X5R, 10V, 10%	TDK	C1005X5R1A225K050BC	Rutronik	KKH1484
Ceramic Non-Magnetic Capacitor	C17, C18	C0603	2	100nF	X7R, 25V, 10%	Vishay	VJ0603Y104KCXAT	Rutronik	VJ0603Y104KCXAT
High I²t Chip fuse	F1	FUSE1206	1	CC12H2A-TR	63V, 2A	EATON	CC12H2A-TR	Rutronik	FUSE10755
Arduino Connector	P1	HDR1X10_ARDUINO	1	RS1-10-G-413	10 pos. 2,54mm	ADAM TECH	RS1-10-G-413	Rutronik	CONN9323
Arduino Connector	P3, P5	HDR1X8_ARDUINO	2	RS1-08-G-413	8 pos. 2,54mm	ADAM TECH	RS1-08-G-413	Rutronik	CONN9321
Arduino Connector	P4	HDR1X6_ARDUINO	1	RS1-06-G-413	6 pos. 2,54mm	ADAM TECH	RS1-06-G-413	Rutronik	CONN9319
Thick Film Resistor	R1, R2	R0402	2	10K	5% 0,063W	Yageo	RC0402JR-1310KL	Rutronik	WRC51147
Thick Film Resistor	R3	R0402	1	4.7R	5% 0,063W	Yageo	RC0402JR-074R7L	Rutronik	WRC34495
Thick Film Resistor	SB1, SB2, SB3, SB4, SB6, SB7, SB14, SB15, SB16, SB17, SB18, SB19, SB20, SB25, SB26, SB28, SB29, SB30, SB31, SB32, SB34, SB35, SB37, SB39, SB42, SB43, SB44, SB45, SB46, SB47, SB48, SB49, SB52, SB56, SB57, SB58, SB59, SB60, SB61, SB63, SB64, SB65	SB_0402	42	0R	5% 0,063W	Yageo	RC04020R	Rutronik	WRC52534
SMT Test Point	TP5	5019_keystone	1	P/N5019	3.81*2.03	Keystone Electronics	P/N5019	Rutronik	BAT4950
500mA Low-Noise LDO Voltage Regulator	U1	SOT23-5_custom	1	SPX3819M5-L-1-8/TR	1.8V, 500mA	MaxLinear	SPX3819M5-L-1-8/TR	Rutronik	SPX3819M5-L-1-8/TR
Air Quality Sensor for VOC and NOx Measurements	U2	SGP41	1	SGP41-D-R4	3.3V, 2.6mA	Sensirion	SGP41-D-R4	Rutronik	ICENVI1397
Digital XENSIV barometric pressure sensor	U3	DPS368	1	DPS368XTSA1	I2C, SPI	Infineon	DPS368XTSA1	Rutronik	ICENVI1174
Digital gas, pressure, temperature, humidity AI sensor	U4	BME690	1	BME690	I2C, SPI	BOSCH	BME690	Rutronik	ICENVI1630
Relative Humidity and Temperature Sensor.	U5	SHT45	1	SHT41-AD1B-R2	1.08V, 0.5mA	Sensirion	SHT41-AD1B-R2	Rutronik	ICENVI1393
Small, versatile 6DoF sensor module	U6	BMI323	1	BMI323	I2C, I3C, SPI	BOSCH	BMI323	Rutronik	ICMEMS1634
Barometric Pressure Sensor	U7	BMP585	1	BMP585	I2C, I3C, SPI	BOSCH	BMP585	Rutronik	ICENVI1532
3-axis magnetic sensor	U8	BMM350	1	BMM350	I2C, I3C	BOSCH	BMM350	Rutronik	ICIN5292