

Project (Code)	RSB (R19P12)	Document	BOM (A)	
Customer	Renesas Electronics Europe	PCB ID-Rev.	R19P12P0 - R1.2	YES
Note				NO
				V

n.	Manufacturer	Manufacturer P/N	Description	Value	Proj. Reference	pcs/ unit	Package	Mount
1	Murata	DLP11SN201HL2L	Filter EMI DLP11SN L2L Series 200 at 100MHz 110mA 5V	-	B1	1	-	YES
2	-	-	Capacitor Ceramic SMD	0603 100n	C1, C2, C3, C4, C6, C10, C11, C12, C13, C14, C25, C28, C29, C30, C36, C37, C39, C40, C41, C46, C47, C48, C51, C52	24	0603	YES
3	-	-	Capacitor Ceramic SMD	0603 1u 10V	C15, C45	2	0603	YES
4	-	-	Capacitor Ceramic SMD	0603 470n	C16, C17, C27, C44	4	0603	YES
5	-	-	Capacitor Ceramic SMD	0805 47u 10V	C18, C42, C43	3	0805	YES
6	-	-	Capacitor Ceramic SMD	0603 3u3	C19	1	0603	YES
7	-	-	Capacitor Ceramic SMD	0805 4u7 10V	C20, C21,	2	0805	YES
8	-	-	Capacitor Ceramic SMD	0603 47p	C23, C24	2	0603	YES
9	-	-	Capacitor Ceramic SMD	0603 220n	C26	1	0603	YES
10	-	-	Capacitor Ceramic SMD	0603 22p	C32, C33	2	0603	YES
11	-	-	Capacitor Ceramic SMD	0603 15p	C34, C35	2	0603	YES
12	-	-	Capacitor Ceramic SMD	0603 4u7	C5, C22, C31, C38	4	0603	YES
13	-	-	Capacitor Ceramic SMD	0603 DNP (100n)	C51	1	0603	NO
14	-	-	Capacitor Ceramic SMD	0402 22p 50V	C7	1	0402	YES
15	-	-	Capacitor Ceramic SMD	0805 22u 10V	C8, C9, C49, C50	4	0805	YES
16	Diodes Inc	DFLS130L-7	Diode Schottky SMD 1A	-	D1, D2, D3, D4, D5	5	PowerDI 123	YES
17	Murata	BLM15PX4715N1D	Inductor Ferrite Core SMD	-	FB1, FB2, FB3	3	0402	YES
18	FCI	20021121-00010C4LF	Conn Pin 10p DL 1.27mm SMD	-	J1	1	-	YES
19	Würth Elektronik	61300211121	Conn Pin 2p SL 2.54mm TH	-	J10, J11, J12, J13, J14, J15, J16, J17, J18, J19, J20, J21, J22, J23, J24, J25, J26, J27, J28, J29, J30, J31, J34, J36, J37, J38, J41	27	-	YES
20	Hirose	ZX62-B-5PA(33)	Conn Micro USB SMT Type B	-	J3, J8	2	-	YES
21	Würth Elektronik	61300421121	Conn Pin 4p DL-RA 2.54mm TH	-	J32	1	-	YES
22	Würth Elektronik	61203421621	Conn Pin 34p DL-RA 2.54mm TH	-	J33	1	-	YES
23	Würth Elektronik	61300311121	Conn Pin 3p SL 2.54mm TH	-	J35, J42, J44	3	-	YES
24	Würth Elektronik	61300411121	Conn Pin 4p SL 2.54mm TH	-	J39, J40	2	-	YES
25	Samtec	SSQ-110-23-G-S	Conn Socket 10p SL 2.54mm TH	-	J4 x2	2	-	YES
26	Würth Elektronik	613012243121	PMOD-HOST Conn Socket 12p DL-RA 2.54mm TH	-	J41	1	-	YES
27	Würth Elektronik	61301221021	PMOD PERIPHERAL Conn Pin 12p DL-RA 2.54mm TH	-	J43	1	-	YES
28	Samtec	SSQ-108-23-G-S	Conn Socket 8p SL 2.54mm TH	-	J5 x2, J6 x2	4	-	YES
29	Samtec	SSQ-106-23-G-S	Conn Socket 6p SL 2.54mm TH	-	J7 x2	2	-	YES
30	Würth Elektronik	74437324022	Power Inductor	2u2	L1, L2	2	-	YES
31	Osram Opto	SFH4550	Led Diode TH 5mm SFH4550	-	LED_TOF	1	LED 5mm TH	YES
32	Würth Elektronik	150060B555040	Led Diode SMD Blue	-	LED0, LED1, LED2, LED3, LED4, LED5, LED6, LED7	8	0603	YES
33	Würth Elektronik	150060G555040	Led Diode SMD Green	-	LED8	1	0603	YES
34	Osram Opto	SFH213FA	Photo Diode TH 5mm SFH213FA	-	PHD_TOF	1	LED 5mm TH	YES
35	-	-	Resistor SMD	0603 4k7	R1, R62, R63, R64, R65, R66, R67, R68, R69, R92, R93	11	0603	YES
36	-	-	Resistor SMD	0603 30k	R10, R11, R12, R71	4	0603	YES
37	-	-	Resistor SMD	0402 450k	R14	1	0402	YES
38	-	-	Resistor SMD	0402 100k	R16	1	0402	YES
39	-	-	Resistor SMD	0603 10k	R18, R19, R21, R22, R23, R27, R40, R42, R51, R52, R53, R56, R57, R58, R59, R60, R61, R79	18	0603	YES
40	-	-	Resistor SMD	0603 470R	R2	1	0603	YES
41	-	-	Resistor SMD	0603 499k	R20	1	0603	YES
42	-	-	Resistor SMD	0603 523k	R24	1	0603	YES
43	-	-	Resistor SMD	0603 100k	R25	1	0603	YES
44	-	-	Resistor SMD	0603 0R0	R3, R4, R6, R28, R29, R30, R31, R32, R34, R36, R37, R38, R72, R74, R88, R89, R94, R95, R96, R97, R98, R103	22	0603	YES
45	-	-	Resistor SMD	0603 DNP	R33, R35, R39, R43, R44, R45, R48, R49, R50, R54, R55, R73, R75, R76, R85, R90, R91	17	0603	NO

46	-	-	Resistor SMD	0603 1k50	R41	1	0603	YES
47	-	-	Resistor SMD	0603 2k2	R46, R47, R77, R78, R80, R81, R82, R83, R84, R86	10	0603	YES
48	-	-	Resistor SMD	0603 150R	R5, R7	2	0603	YES
49	-	-	Resistor SMD	0603 15k	R70	1	0603	YES
50	-	-	Resistor SMD	0805 0R0	R8, R26	2	0805	YES
51	-	-	Resistor SMD	0402 0R0	R9, R13, R15, R17, R87, R99, R100, R101, R102	9	0402	YES
52	Würth Elektronik	416131160808	Switch Dip SMD, pitch 1.27mm, 8p (alt: TE Connectivity 1-1571983-1 )	-	S1	1	-	YES
53	Würth Elektronik	434121025816	Switch Tact SMD 6.0X3.8 mm	-	SW1, SW2	2	-	YES
54	Renesas	R7F5124773A01CFM	IC MCU 32bit 128kB-Flash 16kB-RAM 64LQFP 32MHz	-	U1	1	64-LFQFP	YES
55	Renesas	ISL33003	IC Translator I2CISL33003IUZ	-	U10	1	8-MSOP	YES
56	Renesas	ZMOD4510	IC Sensors Air Quality TVOC IAQ ZMOD4510AI1V	-	U11	1	12-LGA	YES
57	Renesas	ISL9113ERAZ-T	IC Regulator Boost 1.3A	-	U12	1		YES
58	Microchip	MCP23017-E/SS	IC DIG I/O Expander I2C 16-bit	-	U13, U14, U15	3	SSOP-20	YES
59	Renesas	R7FA2A1AB3CFM#AA0	IC MCU 32bit 256kB-Flash 32kB-RAM 64LQFP 48MHz	-	U2	1	64-LFQFP	YES
60	Renesas	FS2012	Sensor Flow Module (LIQ: FS2012-1002-LQ) (GAS: FS2012-1020-NG)	-	U3	1	-	YES
61	Renesas	ZMOD4410	IC Sensors Air Quality TVOC IAQ ZMOD4410AI1V	-	U4	1	12-LGA	YES
62	Renesas	ISL29501	IC Sensor Time of Flight (ToF) Signal Processing ISL29501IRZ-T7	-	U5	1	24-QFN	YES
63	Renesas	H53001	IC Sensor Humidity	-	U6	1	6-LGA	YES
64	Renesas	OB1203	IC Sensor Digital RGB / IR / Proximity / Pulse Oximeter / Heart-Rate	-	U7	1	14-OSIP	YES
65	Renesas	ISL29033IROZ-T7	IC Sensor Light	-	U8	1	6-ODFN	YES
66	Renesas	ISL80015FRZ-T	IC Regulator Buck 2A	-	U9	1	8-TDFN	YES
67	Abracon	ABM8-12.000MHZ-B2-T	Oscillator 12 MHz	-	Y1	1	4-SMD 3.2x2.5mm	YES
68	Abracon	ABS07-32.768KHZ-T	Oscillator 32KHz 12.5pF	-	Y2	1	2-SMD 3.20x1.50mm	YES