

Project (Code)	ARIS EDGE (PCBR16P10R1D1)	Document	Bill of material
Design	RELOC SRL (ARROW ELECTRONICS)	PCB ID / Revision	PCBR16P10 - R1.1
Notes	Visit http://www.reloc.it/products/aris-edge-iot-board/ for further details		

n.	Manufacturer	Manufacturer P/N	Description	Value	Proj. Reference	pcs/unit	Mount
1		10uF 0805	Ceramic Capacitor (Surface Mount)	10uF	C1	1	YES
2		100nF 0603	Ceramic Capacitor (Surface Mount)	100nF	C2, C3, C5, C6, C7, C8, C9, C10, C26, C27, C35, C36, C38, C39, C42, C45	16	YES
3		22uF 0805	Ceramic Capacitor (Surface Mount)	22uF	C4	1	YES
4		1uF 0603	Ceramic Capacitor (Surface Mount)	1uF	C11, C12, C16, C17, C37, C40	6	YES
5		18pF 0603	Ceramic Capacitor (Surface Mount)	18pF	C13, C14	2	YES
6		100nF 0603	Ceramic Capacitor (Surface Mount)	100nF	C15	1	YES
7		12pF 0603	Ceramic Capacitor (Surface Mount)	12pF	C18, C19	2	YES
8		4u7F 0603	Ceramic Capacitor (Surface Mount)	4.7uF	C20	1	YES
9		33pF 0402	Ceramic Capacitor (Surface Mount)	33pF	C21	1	YES
10		100nF 0402	Ceramic Capacitor (Surface Mount)	100nF	C22, C25, C32, C33	4	YES
11		15pF 0402	Ceramic Capacitor (Surface Mount)	15pF	C23, C24	2	YES
12		12pF 0402	Ceramic Capacitor (Surface Mount)	12pF	C28, C29	2	YES
13		6n8F 0402	Ceramic Capacitor (Surface Mount)	6.8nF	C30	1	YES
14		120nF 0402	Ceramic Capacitor (Surface Mount)	120nF	C31	1	YES
15		10nF 0603	Ceramic Capacitor (Surface Mount)	10nF	C34	1	YES
16		10uF 0603	Ceramic Capacitor (Surface Mount)	10uF	C41	1	YES
17	Würth Electronics	61300311121	WR-PHD 2.54mm Pin Header		J3	1	YES
18	Würth Electronics	61301011821	WR-PHD 2.54 mm Socket Header		J6	1	YES
19	Würth Electronics	61300811821	WR-PHD 2.54 mm Socket Header		J7, J8	2	YES
20	Würth Electronics	61300611821	WR-PHD 2.54 mm Socket Header		J9	1	YES
21	Würth Electronics	61300211121	WR-PHD 2.54mm Pin Header		J10, J11, J14, P1, P2, P3	6	YES
22		270Ohm 0603	Resistor (Surface Mount)	270R	R1	1	YES
23		0R0 0603	Resistor (Surface Mount)	0R0	R2, R3, R5, R8, R9, R14, R19, R20, R26, R27, R41	11	YES
24		0R0 DNP	Resistor (Surface Mount)	DNP	R4, R6	2	NO
25		10K 0603	Resistor (Surface Mount)	10k	R7, R38, R40, R42, R43, R44	6	YES
26		15k 0603	Resistor (Surface Mount)	15k	R10	1	YES
27		27R0 0402	Resistor (Surface Mount)	27R0	R11, R12, R84, R85	4	YES
28		30k 0603	Resistor (Surface Mount)	30k	R13	1	YES
29		4K7 0603	Resistor (Surface Mount)	4K7	R15	1	YES
30		1k 0603	Resistor (Surface Mount)	1k	R16, R17, R23	3	YES
31		0R0 0402	Resistor (Surface Mount)	0R0	R18, R35, R36, R56	4	YES
32		0R0 DNP 0603	Resistor (Surface Mount)	DNP	R21, R22, R29, R30, R31, R37	6	NO
33		47k 0603	Resistor (Surface Mount)	47k	R24, R47, R48	3	YES
34		560R 0603	Resistor (Surface Mount)	560R	R25	1	YES
35		520R DNP	Resistor (Surface Mount)	DNP	R28	1	NO
36		30k DNP 0402	Resistor (Surface Mount)	DNP	R32, R33	2	NO
37		10K 0402	Resistor (Surface Mount)	10k	R34, R53	2	YES
38		10K DNP 0603	Resistor (Surface Mount)	DNP	R39	1	NO
39		0R0	Resistor (Surface Mount)	0R0	R45, R46	2	YES
40		4K7 0402	Resistor (Surface Mount)	4K7	R76, R77	2	YES
41		150R 0402	Resistor (Surface Mount)	150R	R78, R79, R80, R81	4	YES
42		Res	Resistor (Surface Mount)		R82	1	YES
43		1K5 0402	Resistor (Surface Mount)	1K50	R83	1	YES
44	Harwin	S8211-46R	HOLDER COIN CELL 20MM SMD		B1	1	YES

45	NXP Semiconductors	MMBT3904,215	NPN General Purpose Amplifier		BJT1	1	YES
46	Murata	PKMCS0909E4000-R1	buzzer 9mmX9mm 4kHz		BZ1	1	YES
47	Diodes Inc.	DFLS130L-7	DFLS130L - 1A SCHOTTKY Barrier Rectifier		D1, D2	2	YES
48	FCI	20021121-00010C4LF	Terminal e capicorda 1.27x1.27mm BTB, Hdr Unshrd, SMT, 10 Pos		J1, J4	2	YES
49	Hirose	ZX62-B-5PA(33)	Micro USB SMT Type B		J2	1	YES
50	Molex	67503-1020	USB On-The-Go (OTG) Mini-B Receptacle, Surface Mount, Right Angle		J5	1	YES
51	Dialight	645-598-8160-107F	SMD Chip Led Diode Green		LED1	1	YES
52	Dialight	598-8130-107F	SMD Chip Led Diode Orange		LED2	1	YES
53	Dialight	645-598-8191-107F	SMD Chip Led Diode Blue		LED3, LED5	2	YES
54		DNP	ORANGE LED		LED4	1	NO
55	C&K Components	KSR223GLFG	SMD Tact Switch		SW1, SW2	2	YES
56	Omron	B3U-1000P	SMD Tact Switch 3.0X2.5 mm		SW3	1	YES
57	STMicroelectronics	LDS3985M33R	3.3V 300mA low dropout linear regulator		U1	1	YES
58	Renesas	R7FS124773A01CFM	IC MCU 32BIT 128KB FLASH 64LQFP 32MHz		U2	1	YES
59	Renesas	R7FS3A77C3A01CFM	IC MCU 32BIT 1MB FLASH 64LQFP		U2 assembly variant	1	NO
60	Texas Instruments	TPD2E2U06DRLR	TVS diode ESD protection device		U3	1	YES
61	Renesas	R5F56216BDLD#U0	RX621 micro for JLINK		U4	1	YES
62	Abracon	ASTX-H12-12.000MHZ-T	12MHz Oscillator 50ppm		U5	1	YES
63	Silicon Labs	MGM111A256V2	Mighty Gecko MGM111 multi-protocol module		U6	1	YES
64	Bosch	BME280	Combined humidity and pressure sensor		U7	1	YES
65	Bosch	BNO055	IMU 9 Axis		U8	1	YES
66	STMicroelectronics	STM1818SWX7F	Low power reset circuit		U9	1	YES
67	ams	TSL25711FN	Light Sensor		U10	1	YES
68	Silicon Labs	SI7013-A20-GM1R	I2C Humidity and 2-Zone Temperature Sensor		U11	1	NO
69	Abracon	ABM3C-12.000MHZ-D4Y-T	Crystals 12MHz 30ppm		X1	1	YES
70	Abracon	ABS07-32.768KHZ-T	Crystals 32.768KHz		Y1, Y2	2	YES