

Project (Code)	ARIS EDGE S3 (PCBR16P10R1D2)	Document	Bill of material (A)
Customer	RELOC SRL (ARROW ELECTRONICS)	PCB ID / Rev.	PCBR16P10 - R1.2
Note	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, C41	2	YES
2		100nF 0603	Ceramic Capacitor (Surface Mount)	100nF	C2, C3, C5, C6, C7, C8, C9, C10, C26, C27, C35, C38, C39, C43, C45	15	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 0402	Ceramic Capacitor (Surface Mount)	100nF	C15, C22, C25, C32, C33	5	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		15pF 0402	Ceramic Capacitor (Surface Mount)	15pF	C23, C24	2	YES
11		12pF 0402	Ceramic Capacitor (Surface Mount)	12pF	C28, C29	2	YES
12		6n8F 0402	Ceramic Capacitor (Surface Mount)	6.8nF	C30	1	YES
13		120nF 0402	Ceramic Capacitor (Surface Mount)	120nF	C31	1	YES
14		10nF 0603	Ceramic Capacitor (Surface Mount)	10nF	C34	1	YES
15		100nF 0603 DNP	Ceramic Capacitor (Surface Mount)	DNP (100nF)	C36, C42	2	NO
16	Würth Electronics	61300311121	WR-PHD 2.54mm Pin Header		J3, J16	2	YES
17	Samtec	SSQ-110-03-G-S	WR-PHD 2.54 mm Socket Header		J6	1	YES
18	Samtec	SSQ-108-03-G-S	WR-PHD 2.54 mm Socket Header		J7, J8	2	YES
19	Samtec	SSQ-106-03-G-S	WR-PHD 2.54 mm Socket Header		J9	1	YES
20	Würth Electronics	61300211121	WR-PHD 2.54mm Pin Header		J10, J11, J14, J15, P1, P2, P3	7	YES
21		270Ohm 0603	Resistor (Surface Mount)	270R	R1	1	YES
22		0R0 0603	Resistor (Surface Mount)	0R0	R2, R3, R5, R8, R9, R19, R20, R26, R27, R41, R45, R46	12	YES
23		0R0 0603 DNP	Resistor (Surface Mount)	DNP (0R0)	R4, R6, R14, R21, R22, R29, R30, R31, R37	9	NO
24		10k 0603	Resistor (Surface Mount)	10k	R7, R38, R40, R42, R43	5	YES
25		15k 0603	Resistor (Surface Mount)	15k	R10	1	YES
26		27R0 0402	Resistor (Surface Mount)	27R0	R11, R12, R84, R85	4	YES
27		30k 0603	Resistor (Surface Mount)	30k	R13	1	YES
28		4k7 0603	Resistor (Surface Mount)	4k7	R15	1	YES
29		1k 0603	Resistor (Surface Mount)	1k	R16, R17, R23, R48	4	YES
30		0R0 0402	Resistor (Surface Mount)	0R0	R18, R35, R36, R56	4	YES
31		47k 0603	Resistor (Surface Mount)	47k	R24, R47	2	YES
32		560Ohm 0603	Resistor (Surface Mount)	560R	R25	1	YES

33		520Ohm DNP	Resistor (Surface Mount)	DNP (520R)	R28	1	NO
34		30k 0402 DNP	Resistor (Surface Mount)	DNP (30k)	R32	1	NO
35		30k 0402	Resistor (Surface Mount)	30k	R33	1	YES
36		10k 0402	Resistor (Surface Mount)	10k	R34, R53, R78	3	YES
37		10k 0603 DNP	Resistor (Surface Mount)	DNP (10k)	R39, R44	2	NO
38		4k7 0402	Resistor (Surface Mount)	4k7	R76, R77, R82	3	YES
39		150R 0402	Resistor (Surface Mount)	150R	R79, R80	2	YES
40		1k5 0402	Resistor (Surface Mount)	1k5	R83	1	YES
41	Harwin	S8211-46R	HOLDER COIN CELL 20MM SMD		B1	1	YES
42	NXP Semiconductors	MMBT3904,215	NPN General Purpose Amplifier		BJT1	1	YES
43	Murata	PKMCS0909E4000-R1	buzzer 9mmX9mm 4kHz		BZ1	1	YES
44	Diodes Inc.	DFLS130L-7	DFLS130L - 1A SCHOTTKY Barrier Rectifier		D1, D2	2	YES
45	FCI	20021121-00010C4LF	Terminal e capicorda 1.27x1.27mm BTB, Hdr Unshrd, SMT, 10 Pos		J1, J4	2	YES
46	Hirose	ZX62-B-5PA(33)	Micro USB SMT Type B		J2	1	YES
47	Molex	67503-1020	USB On-The-Go (OTG) Mini-B Receptacle, Surface Mount, Right Angle		J5	1	YES
48	Dialight	645-598-8160-107F	SMD Chip Led Diode Green		LED1	1	YES
49	Dialight	598-8130-107F	SMD Chip Led Diode Orange		LED2	1	YES
50	Dialight	645-598-8191-107F	SMD Chip Led Diode Blue		LED3, LED5	2	YES
51		DNP	ORANGE LED		LED4	1	NO
52	C&K Components	KSR223GLFG	SMD Tact Switch		SW1, SW2	2	YES
53	Omron	B3U-1000P	SMD Tact Switch 3.0X2.5 mm		SW3	1	YES
54	STMicroelectronics	LDS3985M33R	3.3V 300mA low dropout linear regulator		U1	1	YES
55	Renesas	R7FS3A37A3A01CFM#AA0	IC MCU 32BIT 512KB FLASH 64LQFP		U2	1	YES
56	Renesas	R7FS124773A01CFM DNP	IC MCU 32BIT 128KB FLASH 64LQFP 32MHz		U2 alternative	1	NO
58	Texas Instruments	TPD2E2U06DRLR	TVS diode ESD protection device		U3	1	YES
59	Renesas	R5F56216BDLD#U0	RX621 micro for JLINK		U4	1	YES
60	Abracon	ASTX-H12-12.000MHZ-T	12MHz Oscillator 50ppm		U5	1	YES
61	Silicon Labs	MGM111A256V2	Mighty Gecko MGM111 multi-protocol module		U6	1	YES
62	Bosch	BME280	Combined humidity and pressure sensor		U7	1	YES
63	Bosch	BNO055	IMU 9 Axis		U8	1	YES
64	STMicroelectronics	STM1818SWX7F DNP	Low power reset circuit		U9	1	NO
65	ams	TSL25711FN	Light Sensor		U10	1	YES
66	Silicon Labs	SI7013-A20-GM1R DNP	I2C Humidity and 2-Zone Temperature Sensor		U11	1	NO
67	Windond	W74M32FV	Serial Flash Memory w/ Secure Authentication		U12	1	YES
68	ON Semiconductors	FSA2259UMX	Low-Voltage Dual-SPDT Analog Switch		U13	1	YES
69	Abracon	ABM3C-12.000MHZ-D4Y-T	Crystal 12.0000MHZ 18PF SMD		X1	1	YES
70	Abracon	ABS07-32.768KHZ-T	Crystal 32KHZ 12.5pF		Y1, Y2	2	YES