

Project (Code)	ARIS (PCBR15P06R1D2)	Document	Bill of material
Design	RELOC SRL (ARROW ELECTRONICS)	PCB ID - Revision	PCBR15P06 - R1.2
Notes	Visit www.reloc.it/products/aris for further details		

n.	Manufacturer	Man. Part Number	Description	Value	Proj. Reference	pcs/unit	mount
1	MPD (Memory Protection Devices)	BK-885-TR	HOLDER COIN CELL 12MM SMD		BT1	1	YES
2		Cap Cer	Ceramic Capacitor (Surface Mount)	10uF	C1, C4	2	YES
3		Cap Cer	Ceramic Capacitor (Surface Mount)	100nF	C2, C5, C9, C10, C13, C49	6	YES
4		Cap Cer	Ceramic Capacitor (Surface Mount)	22uF	C3, C8, C22, C57	4	YES
5		Cap Cer	Ceramic Capacitor (Surface Mount)	2.2uF	C6, C16	2	YES
6		Cap Cer	Ceramic Capacitor (Surface Mount)	10uF	C7, C12, C44, C54, C60, C61, C84	7	YES
7		Cap Cer	Ceramic Capacitor (Surface Mount)	100nF	C11, C14, C15, C17, C19, C21, C26, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C45, C46, C52, C55, C56, C58, C62, C64, C67, C69, C70, C71, C72, C73, C82, C83, C85, C88	40	YES
8		Cap Cer	Ceramic Capacitor (Surface Mount)	22uF	C18	1	YES
9		Cap Cer	Ceramic Capacitor (Surface Mount)	DNP	C20, C79	2	NO
10		Cap Cer	Ceramic Capacitor (Surface Mount)	100pF	C23	1	YES
11		Cap Cer	Ceramic Capacitor (Surface Mount)	22pF	C24, C25, C50, C51	4	YES
12		Cap Cer	Ceramic Capacitor (Surface Mount)	1uF	C27, C53, C59, C68	4	YES
13		Cap Cer	Ceramic Capacitor (Surface Mount)	7pF	C47, C48	2	YES
14		Cap Cer	Ceramic Capacitor (Surface Mount)	1uF	C63, C65, C81	3	YES
15		Cap Cer	Ceramic Capacitor (Surface Mount)	1uF 50V	C66	1	YES
16		Cap Cer	Ceramic Capacitor (Surface Mount)	10nF	C74, C75, C76, C77, C78	5	YES
17		Cap Cer	Ceramic Capacitor (Surface Mount)	33pF	C80	1	YES
18		Cap Cer	Ceramic Capacitor (Surface Mount)	15pF	C86, C87	2	YES
19		GREEN LED	GREEN LED (SMD 0805 package)		D1	1	YES
20	Diodes Incorporated	BAS40LP-7	Schottky Diode		D2	1	YES
21	Diodes Incorporated	DFLS130L-7	DFLS130L - 1A SCHOTTKY Barrier Rectifier		D5, D6, D7	3	YES
22	Murata Electronics North America	BLM21AG121SN1D	Murata ferrite bead		F1	1	YES
23	Switchcraft Inc.	RAPC722X	Switchcraft RAPC722X		J1	1	YES
24	Würth Elektronik	61301011821	WR-PHD 2.54 mm Socket Header		J2	1	YES
25	Würth Elektronik	61300811821	WR-PHD 2.54 mm Socket Header		J3, J6	2	YES
26	Würth Elektronik	61300211121	WR-PHD 2.54mm Pin Header		J4, J5, J12, J13, J18	5	YES
27	Würth Elektronik	61300611821	WR-PHD 2.54 mm Socket Header		J7, J17	2	YES
28	Würth Elektronik	693071010811	WR-CRD Micro SD_Push and Push		J8	1	YES
29	Würth Elektronik	61300311121	WR-PHD 2.54mm Pin Header		J9, J10, J20, J24, J26	5	YES
30	Würth Elektronik	62101021021	WR-PHD 1.27 mm Dual SMT Pin Header		J11, J16	2	YES
31	Würth Elektronik	629105136821	WR-COM Micro USB SMT Type B		J14	1	YES
32	Würth Elektronik	629105150921	WR-COM_USB_Micro Type AB_Horizontal_SMT		J15	1	YES
33	Würth Elektronik	65100516121	WR-COM Mini USB SMT Type B 5 Contacts		J25	1	YES
34	Würth Elektronik	61304021821	WR-PHD 2.54 mm Dual Socket Header		JD1	1	YES
35	Samsung Electro-Mechanics America, Inc.	CIG21L4R7MNE	Inductor (Surface Mount)	4uH	L1	1	YES
36	Würth Elektronik	74279265	Ferrite Bead		L2, L3	2	YES
37		LED Blue	LED Blue 0805		LED1	1	YES

38		LED Orange	LED Orange 0805		LED2	1	YES
39	Vishay Siliconix	SI1416EDH-T1-GE3	N-Channel 30V (D-S) MOSFET		Q1	1	YES
40		Res	Resistor (Surface Mount)	DNP	R1, R12, R30, R45, R51, R87, R88, R90, R92, R109, R110, R111, R112, R113, R122	15	NO
41		Res	Resistor (Surface Mount)	1k	R2	1	YES
42		Res	Resistor (Surface Mount)	0R0	R3, R15, R16, R29, R35, R36, R44, R46, R47, R48, R49, R50, R53, R86, R89, R107, R108, R121	18	YES
43		Res	Resistor (Surface Mount)	0R0	R4, R114, R115, R116, R117	5	YES
44		Res	Resistor (Surface Mount)	4k7	R5, R8, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R91, R93, R96, R97, R102	27	YES
45		Res	Resistor (Surface Mount)	1k0	R6, R7	2	YES
46		Res	Resistor (Surface Mount)	33R0	R9, R10, R11, R14	4	YES
47		Res	Resistor (Surface Mount)	1k	R13	1	YES
48		Res	Resistor (Surface Mount)	DNP (10k)	R17, R18, R19	3	NO
49		Res	Resistor (Surface Mount)	6k49 1%	R20	1	YES
50		Res	Resistor (Surface Mount)	10k	R21, R27, R28, R37, R38, R40, R41, R42	8	YES
51		Res	Resistor (Surface Mount)	1k0 0.1%	R22	1	YES
52		Res	Resistor (Surface Mount)	47k	R23	1	YES
53		Res	Resistor (Surface Mount)	2k2 1%	R24	1	YES
54		Res	Resistor (Surface Mount)	0R05 1% (50 mOhm shunt)	R25, R26	2	YES
55		Res	Resistor (Surface Mount)	15k	R31	1	YES
56		Res	Resistor (Surface Mount)	27R0	R32, R33, R94, R95, R104, R105	6	YES
57		Res	Resistor (Surface Mount)	30k	R34	1	YES
58		Res	Resistor (Surface Mount)	DNP	R39, R106, R118, R120	4	NO
59		Res	Resistor (Surface Mount)	1M	R43, R52, R54	3	YES
60		Res	Resistor (Surface Mount)	4k7	R55, R56, R57, R58, R59, R60, R81	7	YES
61		Res	Resistor (Surface Mount)	22k	R82, R83	2	YES
62		Res	Resistor (Surface Mount)	680	R84	1	YES
63		Res	Resistor (Surface Mount)	100	R85	1	YES
64		Res	Resistor (Surface Mount)	150R	R98, R99, R100, R101	4	YES
65		Res	Resistor (Surface Mount)	1K50	R103	1	YES
66		Res	Resistor (Surface Mount)	2k2	R119	1	YES
67	Wurth Elektronik	434121025816	WS-TASV SMD Tact Switch 6.0X3.8 mm		SW1, SW2, SW_RST	3	YES
68	Pulse Electronics Corporation	J0011D01BNL	RJ45 LAN Transformer, 10/100 Base-T		T1	1	YES
69	Linear Technology	LTC3624EMSE-3.3#PBF	3.3V 2A switching 1MHz regulator		U1	1	YES
70	Linear Technology	LTC4360CSC8-1#TRMPBF	Overvoltage protection controller		U2	1	YES
71	Texas Instruments	TLV70033DCKR	3.3V 200mA low dropout linear regulator		U3	1	YES
72	Microchip Technology	KSZ8091RNACA-TR	Ethernet physical layer		U4	1	YES
73	Renesas Electronics America	R7F57G27H3A01CFC	Sinergy S7 Series LQFP 176 pin		U5	1	YES
74	Texas Instruments	TPD2E2U06DRLR	TVS diode ESD protection device		U6, U7	2	YES
75	Diodes Incorporated	AP2141WG-7	high-side power switch		U8	1	YES
76	Silicon Labs	BGM111A256V2	Blue Gecko BGM111 Bluetooth Smart Module		U9	1	YES
77	Analog Devices Inc.	ADXL362BCCZ-RL7	3-Axis Digital Output MEMS Accelerometer		U10	1	YES
78	Analog Devices Inc.	ADXRS290BCEZ	Dual-Axis MEMS Gyroscope		U11	1	YES
79	Silicon Labs	SI7013-A20-GM1R	I2C Humidity and 2-Zone Temperature Sensor		U12	1	YES
80	Atmel	ATWINC1500-MR210PA	Atmel WINC1500 802.11 b/g/n IoT module		U13	1	YES
81	Spansion	S25FL512SAGMFI013	512Mb Serial Flash Memory		U14	1	YES
82	Micron Technology Inc.	MT48LC16M16A2P-6A:G TR	4 Meg x 16 x 4 banks SDRAM memory		U15	1	YES
83	NXP Semiconductors	NT3H1201W0FTTJ	Energy harvesting NFC Tag		U16	1	YES
84	Semtech Corporation	SX8656IWLTRT	I2C Resistive Touchscreen Controller		U17	1	YES
85	Renesas Electronics America	R5F56216BDLD#U0 R5F56217BDLD#U0	RX621 micro for JLINK		U18	1	YES
86	Abracon LLC	ASTX-H12-12.000MHZ-T	12MHz Oscillator 50ppm		U19	1	YES

87	-	MFI337S3959	MFi security chip		U20	1	NO
88	Abracon LLC	ABM11-25.000MHZ-B7G-T	ABM11 25 MHz Crystal Oscillator		Y1	1	YES
89	Abracon LLC	ABS06-32.768KHZ-T	ABS06 32.768kHz Crystal Oscillator		Y2	1	YES
90	Abracon LLC	ABM11-24.000MHZ-B7G-T	ABM11 24 MHz Crystal Oscillator		Y3	1	YES