BOM InterconnectIO Board 610-1000-011

Component for this board has been selected to be not expensive and available over the world. The quantity specified on the BOM are the required quantity received because most of the components sales by AlieExpress are coming in a lot of 5 or many contractions.

TEM	Ref	Qtv	Value	Component number	Component Link	Footprint
1	BZ1,	1	TMB12A05	5V active Buzzer	https://www.aliexpress.com/item/4000118703011.html?spm=a2g0o.order list.order list main.124.18751802TGrCM3	Buzzer Beeper:Buzzer 12x9.5RM7.6
2	C1, C2, C16, C17, C18, C19, C20,	7	10uF, 50V	4 mmx7mm	https://www.aliexpress.com/item/1005001831366715.html?spm=a2g0o.order_list.order_list_main.128.18751802TGrCM3	Capacitor THT:CP Radial D4.0mm P1.50mm
}	D1, D19, D20, D21, D22, D23, D30, D31, D32, D3	10	1N4148	DO-35	https://www.aliexpress.com/item/1005002761024460.html?spm=a2g0o.order_list.order_list_main.134.18751802TGrCM3	Diode THT:D DO-35 SOD27 P7.62mm Horizontal
	D34,	1	1N5339B	Zener 5.6V 5W	https://www.aliexpress.com/item/1005007252102432.html?spm=a2g0o.cart.0.0.382738davUv7k5∓=1	Diode_THT:D_DO-201_P15.24mm_Horizontal
	D35, D37	2	Green Led	5 color mixing	https://www.aliexpress.com/item/32890682652.html?spm=a2g0o.cart.0.0.484b38da3R3izV∓=1	LED THT:LED D3.0mm
	D36,	1	Red Led	5 color mixing	https://www.aliexpress.com/item/32890682652.html?spm=a2g0o.cart.0.0.484b38da3R3jzV∓=1	LED THT:LED D3.0mm Clear
		1		•		LED_THT.LED_D3.0IIIII_Clear
	F1 (1)	1	2A Fuse	5x20MM 2A	https://www.aliexpress.com/item/1005004651911205.html?spm=a2g0o.cart.0.0.1c8438daX57J70∓=1	
	F2	1	1A Fuse	5x20MM 1A	https://www.aliexpress.com/item/1005004651911205.html?spm=a2g0o.cart.0.0.1c8438daX57J70∓=1	
	F1_socket F2_socket,	2	MC000827	MC000827	https://www.aliexpress.com/item/1005003663678449.html?spm=a2g0o.order_list.order_list_main.109.5ad91802qJ50cl	SnapEDA Library:MC000827
0	J1, J2,	2	9001-11961C00A	396-RA-M	https://www.aliexpress.com/item/32808173331.html?spm=a2g0o.order_detail.order_detail_item.3.8a9af19cRF49dn	9001-11961:900111961C00A
.1	J3, J4,	2	7760	M3 Term Screw	https://www.digikey.ca/en/products/detail/keystone-electronics/7760/2745938	SnapEDA Library:7760
.2	J5, J6, J7, J8, J9, J10,	6	10x2.54mm	Cut to length	https://www.aliexpress.com/item/1000007373786.html?spm=a2g0o.order list.order list main.82.21ef18021ieJzP	Connector_PinSocket_2.54mm:PinSocket_1x10_P2.54mm_Vertical
L3	J11, J12, J13, J14, J15, J16, J30, J31,	8	6x2.54mm	Cut to length	https://www.aliexpress.com/item/1000007373786.html?spm=a2g0o.order_list.order_list_main.82.21ef18021ieJzP	Connector_PinSocket_2.54mm:PinSocket_1x06_P2.54mm_Vertical
14	J17,	1	4 Pins 5.08mm	4P	https://www.aliexpress.com/item/1005001666625465.html?spm=a2g0o.order list.order list main.134.21ef18021ieJzP	4pin 5:1146770000
.5	J18, J19,J21,J22	4	BNC	Conn Coaxial gold plated	https://www.aliexpress.com/item/1005006866967010.html?spm=a2g0o.cart.0.0.5dcc38daPY7vC2∓=1	BNC:TE 1-1337542-0
6	J20,	1	6 pins 3.81mm	6P 3.81mm Plug and Socket-A	https://www.aliexpress.com/item/32880910367.html?spm=a2g0o.order_detail.order_detail_item.3.2a65f19ceWcMGt	6pin_3:SHDRRA6W80P0X381_1X6_2405X920X700P
.7	J23,	1	4 pins 3.81mm	4P 3.81mm Plug and Socket-A	https://www.aliexpress.com/item/32880910367.html?spm=a2g0o.order_detail.order_detail_item.3.7110f19cKK7wMr	4pins 3:691322310004
.8		1	RJ45	•		· -
	124,	1		8P8C Right Angle No led	https://www.aliexpress.com/item/32694863099.html?spm=a2g0o.cart.0.0.7fd538dawwnp2x∓=1	Connector_RJ:RJ45_Ninigi_GE
9	J25,	1	USB-B1HSB6	USB_B Right Angle	https://www.aliexpress.com/item/32834923469.html?spm=a2g0o.order list.order list main.34.21ef18021ieJzP	Connector_USB:USB_B_OST_USB-B1HSxx_Horizontal
0	J26,	1	2x5 2.54mm RA	10P	https://www.aliexpress.com/item/1714360661.html?spm=a2g0o.order list main.29.21ef18021ieJzP	Connector_jtag:SHDRRA10W64P254_2X5_1270X910X880P
1	J27,	1	DC007B	Power Jack 5.5mm	https://www.aliexpress.com/item/1005003742132830.html?spm=a2g0o.order detail.order detail item.3.5979f19cN9006a	SnapEDA Library:CUI_PJ-082BH
2	J29, J34,	2	Conn_01x04_Female	Cut to length	https://www.aliexpress.com/item/1000007373786.html?spm=a2g0o.order list.order list main.82.21ef18021ieJzP	Connector_PinSocket_2.54mm:PinSocket_1x04_P2.54mm_Vertical
:3	J32, J33,	2	8 x 2.54mm Female	Cut to length	https://www.aliexpress.com/item/1000007373786.html?spm=a2g0o.order list.order list main.82.21ef18021ieJzP	Connector_PinSocket_2.54mm:PinSocket_1x08_P2.54mm_Vertical
4	J35,	1	Wire Bridge	0 ohm resistor	https://www.aliexpress.com/item/4000174550644.html?spm=a2g0o.cart.0.0.69c038dacU7SYy∓=1	Connector PinSocket 2.54mm:PinSocket 1x03 P2.54mm Vertical
	K12, K13, K14, K15, K16, K17, K18, K19, K20, K22, K24, K25, K26, K27, K28, K29, K30, K31, K32, K33, K34, K35, K36, K37, K38, K39, K40,					
5	K41,	39	TQ2-5	TQ2-5	https://www.aliexpress.com/item/1005004349797638.html?spm=a2g0o.order_detail.order_detail_item.3.29bdf19cH6EBpl	Relay_THT:Relay_DPDT_FRT5
2	Rolay Sacket	10	1x40P Female Gold	Cut in Enine costion	https://www.plicygross.com/item/10000052700061 html?com-p2000 order list order list main 16 24141902-A9-uff	entionnal
5	Relay Socket	10		Cut in 5 pins section	https://www.aliexpress.com/item/1005005053790061.html?spm=a2g0o.order_list.order_list_main.16.2c1a1802vA8wf5	optionnal
7	K21, K42	2	SRD-5VDC-SL-C	SRD-05VDC-SL	https://www.aliexpress.com/item/1005002916764977.html?spm=a2g0o.cart.0.0.678938dalwTZ3N∓=1	Relay_THT:Relay_SPDT_Omron-G5LE-1
8	K23,	1	CPC1706Y	0-60V 4A	https://www.digikey.ca/en/products/detail/ixys-integrated-circuits-division/CPC1706Y/3077519?s=N4IgTCBcDaIMIAU4EYDsAGAbATRAXQF8g	SnapEDA Library:RELAY_CPC1706Y
)	Q1, Q2, Q3, Q5, Q19, Q22, Q24,	7	2N2222	TO-92	https://www.aliexpress.com/item/1005005303849667.html?spm=a2g0o.cart.0.0.5c5438daSYNCOD∓=1	Package_TO_SOT_THT:TO-92_Inline
)	R1, R10, R11, R12, R13, R14, R15,R16, R17,	9	4.7K	1% 1/4W Resistor Kit	https://www.aliexpress.com/item/1005001818485416.html?spm=a2g0o.cart.0.0.616b38daL0tFWh∓=1	Resistor THT:R Axial DIN0207 L6.3mm D2.5mm P10.16mm Horizonta
l	R2, R3, R5, R7, R8, R9, R31, R35, R40,	9	10K	1% 1/4W Resistor Kit	https://www.aliexpress.com/item/1005001818485416.html?spm=a2g0o.cart.0.0.616b38daL0tFWh∓=1	Resistor THT:R Axial DIN0207 L6.3mm D2.5mm P10.16mm Horizonta
<u>. </u>	R4, R71,	2	0		https://www.aliexpress.com/item/4000174550644.html?spm=a2g0o.cart.0.0.69c038dacU7SYy∓=1	Resistor THT:R Axial DIN0207 L6.3mm D2.5mm P10.16mm Horizonta
			0			
3	R6, R27, R28, R66, R67, R18	5	220	1% 1/4W Resistor Kit	https://www.aliexpress.com/item/1005001818485416.html?spm=a2g0o.cart.0.0.405a38daqyYlSw∓=1	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizont
ŀ	R29,	1	10	10W 10R	https://www.aliexpress.com/item/1005002584950177.html?spm=a2g0o.order_list.order_list_main.76.68501802kRK9e9	Resistor_THT:R_Axial_Power_L38.0mm_W9.0mm_P45.72mm
5	R36,	1	470	1% 1/4W Resistor Kit	https://www.aliexpress.com/item/1005001818485416.html?spm=a2g0o.cart.0.0.616b38daL0tFWh∓=1	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizonta
6	R69,	1	150	1% 1/4W Resistor Kit	https://www.aliexpress.com/item/1005001818485416.html?spm=a2g0o.cart.0.0.616b38daL0tFWh∓=1	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizonta
7	\$1,	1	PB400EEQR1BLK	PB400EEQR1BLK	https://www.digikey.ca/en/products/detail/e-switch/PB400EEQR1BLK/8042726	SnapEDA Library:SW_PB400EEQR1BLK
8	U1, U2, U3, U4,	4	Pico	Raspberry Pico Module	https://www.digikey.ca/en/products/detail/raspberry-pi/SC0915/13624793	MCU RaspberryPi and Boards:RPi Pico SMD TH
9	U1 header,U2 header,U3 header,U4 header	4	1x40P Male L-11.96mm	Cut in 20 pins section	https://www.aliexpress.com/item/1005005053790061.html?spm=a2g0o.cart.0.0.215538daKAWJrh∓=1	Pico round male pins mount on bottom of Pico controller
0	U1_debug,U2_debug,U3_debug,U4_debug	1	1x40P Female Gold	Cut in 3 pins section	https://www.aliexpress.com/item/1005005053790061.html?spm=a2g0o.cart.0.0.215538daKAWJrh∓=1	Pico 3-pin round socket mount on top of Pico controller (SWD)
		1		· · · · · · · · · · · · · · · · · · ·		1 1
1	U1_dhead,U2_dhead,U3_dhead,U4_dhead	1	1x40P Male L-11.96mm	Cut in 3 pins section	https://www.aliexpress.com/item/1005005053790061.html?spm=a2g0o.cart.0.0.215538daKAWJrh∓=1	Pico 3-pin round male pins mount on round socket of Pico controller (SW
2	U1_socket,U2_socket,U3_socket,U4_socket	4	1x40P Female Gold	Cut in 20 pins section	https://www.aliexpress.com/item/1005005053790061.html?spm=a2g0o.cart.0.0.215538daKAWJrh∓=1	Pico round socket mount on PCB
,	U5,	1	LM4040LP-3	LM4040LP-3	https://www.digikey.ca/en/products/detail/texas-instruments/LM4040D30ILPR/1493976	Package_TO_SOT_THT:TO-92_Inline
	U6, U7, U8,	3	TXS0108E module	TXS0108E 5pcs	https://www.aliexpress.com/item/1005005611794764.html?spm=a2g0o.cart.0.0.48ca38daLipET∓=1	
5	U9,	1	MAX3232	Serial Module	https://www.aliexpress.com/item/4000587246651.html?spm=a2g0o.cart.0.0.251f38daKBNFZg∓=1	
<u> </u>	U10,	1	INA219AxD	Current Monitoring Module	https://www.aliexpress.com/item/32375566240.html?spm=a2g0o.order list.order list main.44.68501802kRK9e9	
7	U11,	<u>-</u> 1	MCP4725xxx-xCH	DAC Module	https://www.aliexpress.com/item/1005003301834508.html?spm=a2g0o.order_detail.order_detail_item.9.30154f03ARKf2e	
3		1				Packago DIP-DIP 9 W7 62mm
	U12,	1	24LC32	24LC32	https://www.aliexpress.com/item/1005007109141216.html?spm=a2g0o.cart.0.0.110c38dab4kaqM∓=1	Package_DIP:DIP-8_W7.62mm
)	U13, U14, U15, U16, U17, U18,	b	ULN2003A	ULN2003AN DIP	https://www.aliexpress.com/item/1005003321113000.html?spm=a2g0o.order list.order list main.55.68501802kRK9e9	Package_DIP:DIP-16_W7.62mm_LongPads
1	U13_socket, U14_socket, U15_socket,	c	16 nin cocleat	round hale DID 1C-	https://www.plipuppee.com/item/4000570057035 html/20057036 html/20057035 html/20057005 html/20057005 html/20057005 html/20057005	Dockogo DID-DID 16 W7 63 Language
0	U16_socket, U17_socket, U18_socket,	D	16 pin socket	round hole DIP-16p	https://www.aliexpress.com/item/4000578067926.html?spm=a2g0o.cart.0.0.2bcc38da88bsXx∓=1	Package_DIP:DIP-16_W7.62mm_LongPads
1	U20 U21, U22	3	BSS138	Logic level converter	https://www.aliexpress.com/item/1005006096023556.html?spm=a2g0o.cart.0.0.512038daUH9mqE∓=1	
2	TP22,TP86,TP87,TP88,TP101	5	Testpoint	Black,Blue,Green,Red,Yellow	https://www.aliexpress.com/item/1005001843784820.html?spm=a2g0o.cart.0.0.7faa38daxJjUNz∓=1	TestPoint_Loop_D2.54mm_Drill1.5mm_Beaded
3	Hardware nylon Standoff	1	F-F nylon Standoff	M2 Black nylon mix 300pcs	https://www.aliexpress.com/item/32869450950.html?spm=a2g0o.cart.0.0.5bee38daupPiNY∓=1	
1	Hardware metal Screw	1	M2.5	M2.5 600pcs	https://www.aliexpress.com/item/1005007148394693.html?spm=a2g0o.order_detail.order_detail_item.3.6db7f19c0LlCTk	
5	PCB InterconnectIO Board	1	660-1000-011	Gerbers to order	https://jlcpcb.com/	
	Q26, Q27, Q28, Q29, Q30, Q31, Q32, Q33, Q34, 1	12	BSS138	BSS138	Not installed, use already assembled module	Import_library:SOT-23W_SHORT
	R42, R43, R44, R45, R46, R47, R48, R49, R50, R51	24	10K	R US	Not installed, use already assembled module	Resistor_SMD:R_0603_1608Metric
		7	101/			
	R73, R74, R78, R79, R80, R81, R82,	/	TUK	R_US	Not installed, use already assembled module	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
	R75, R76,	2	4.7K	R_US	Not installed, use already assembled module	Resistor_SMD:R_0603_1608Metric_Pad0.98x0.95mm_HandSolder
	R77,	1	0.	1 R_US	Not installed, use already assembled module	Resistor_SMD:R_2512_6332Metric_Pad1.40x3.35mm_HandSolder
	R83,	1	10K	R_US	Not installed, use already assembled module	Resistor_SMD:R_0603_1608Metric_Pad0.98x0.95mm_HandSolder
	C3, C4, C5, C6, C7, C8, C13, C14,	8	0.1uF	C Small	Not installed, use already assembled module	Capacitor_SMD:C_0603_1608Metric_Pad1.08x0.95mm_HandSolder
		1	100n	C_Small		Capacitor_SMD:C_0603_1608Metric_Pad1.08x0.95mm_HandSolder
	C9, C10, C11, C12,	1	0.1		Not installed, use already assembled module	<u> </u>
	CIO,	T	n.tur	C_Small	Not installed, use already assembled module	Capacitor_SMD:C_0805_2012Metric_Pad1.18x1.45mm_HandSolder Connector_Dsub:DSUB-9_Female_Horizontal_P2.77x2.84mm_EdgePinO1
						iconnector psub.psup-9 remale norizontal Pz.//xz.84mm EdgePinO7
	120	1	DB9 Female RA	DB9_Female_MountingHoles	Not installed, use already assembled module	et4.94mm_Housed_MountingHolesOffset7.48mm