BOM InterconnectIO Board 600-1000-011

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 and not the quantity received because most of the components sales by AlieExpress are coming in a

VI	Ref Qt	y Value	Component number	Component Link	Footprint
	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
	C1, C2, C16, C17, C18, C19, C20,	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, D310	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
$\overline{}$	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.0.0.484b38da3R3jzV∓=1	LED THT:LED D3.0mm
-	D36, 1			https://www.aliexpress.com/item/32890682652.html?spm=a2g0o.cart.0.0.484b38da3R3jzV∓=1	LED THT:LED D3.0mm Clear
_	D30,	Red Led	5 color mixing		LED_THT.LED_D3.0HHHI_Cledi
_	F1 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
	J1, J2, 2	9001-11961C0)A 396-RA-M	https://www.aliexpress.com/item/32808173331.html?spm=a2g0o.order_detail.order_detail_item.3.8a9af19cRF49dn	9001-11961:900111961C00A
	J3, J4, 2	7760	M3 Term Screw	https://www.digikey.ca/en/products/detail/keystone-electronics/7760/2745938	SnapEDA Library:7760
$\overline{}$	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
$\overline{}$	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
$\overline{}$		4 Pins 5.08mm	4P	https://www.aliexpress.com/item/1005001666625465.html?spm=a2g0o.order_list.order_list_main.134.21ef18021ieJzP	
\rightarrow	J17, 1				4pin_5:1146770000
\rightarrow	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
\rightarrow	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
	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
	J24, 1	RJ45	8P8C Right Angle No led	https://www.aliexpress.com/item/32694863099.html?spm=a2g0o.cart.0.0.7fd538dawwnp2x∓=1	Connector_RJ:RJ45_Ninigi_GE
	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
$\overline{}$	J26, 1	2x5 2.54mm R/		https://www.aliexpress.com/item/1714360661.html?spm=a2g0o.order list.order list main.29.21ef18021ieJzP	Connector jtag:SHDRRA10W64P254 2X5 1270X910X880P
\rightarrow	J27, 1	DC007B	Power Jack 5.5mm	https://www.aliexpress.com/item/171430001.html?spm=a2g0o.order list.order list main.23.21e118021e2F	SnapEDA Library:CUI PJ-082BH
	-				· · · =
	J29, J34, 2		emaleCut 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
$\overline{}$	J32, J33, 2		nale 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
	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
	K11, 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, K41,	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
	Relay Socket 10	1v40P Female	Gold Cut in 5 pins section	https://www.aliexpress.com/item/1005005053790061.html?spm=a2g0o.order_list.order_list_main.16.2c1a1802vA8wf5	optionnal
\rightarrow	•	SRD-5VDC-SL-0	<u>'</u>	https://www.aliexpress.com/item/1005002916764977.html?spm=a2g0o.cart.0.0.678938dalwTZ3N∓=1	Relay THT:Relay SPDT Omron-G5LE-1
$\overline{}$	K21, K42 2				
-	K23, 1	CPC1706Y	0-60V 4A	https://www.digikey.ca/en/products/detail/ixys-integrated-circuits-division/CPC1706Y/3077519?s=N4lgTCBcDaIMIAU4EYDsAGAbATRAXQF8	
	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_Horizo
	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_Horizon
	R4, R71, 2	0	1% 1/4W Low value Resistor Ki	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 Horizon
$\overline{}$	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 Horizo
$\overline{}$	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
-	-				
	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_Horizo
	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_Horizo
	S1, 1	PB400EEQR1B	K PB400EEQR1BLK	https://www.digikey.ca/en/products/detail/e-switch/PB400EEQR1BLK/8042726	SnapEDA Library:SW_PB400EEQR1BLK
	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
_	U1 socket,U2 socket,U3 socket,U4 socke4	1x40P Female	Gold Cut in 20 pins section	https://www.aliexpress.com/item/1005005053790061.html?spm=a2g0o.cart.0.0.215538daKAWJrh∓=1	optionnal
-	U5, 1	LM4040LP-3	LM4040LP-3	https://www.digikev.ca/en/products/detail/texas-instruments/LM040D30ILPR/1493976	Package TO SOT THT:TO-92 Inline
	-				Package_10_301_1H1.10-92_IIIIIIIe
\rightarrow	U6, U7, U8, 3	TXS0108E mod	<u> </u>	https://www.aliexpress.com/item/1005005611794764.html?spm=a2g0o.cart.0.0.48ca38daLJipET∓=1	
	U9, 1	MAX3232	Serial Module	https://www.aliexpress.com/item/4000587246651.html?spm=a2g0o.cart.0.0.251f38daKBNFZg∓=1	
	U10, 1	INA219AxD	Current Monitoring Module	https://www.aliexpress.com/item/32375566240.html?spm=a2g0o.order list.order list main.44.68501802kRK9e9	
	U11, 1	MCP4725xxx-x	CH DAC Module	https://www.aliexpress.com/item/1005003301834508.html?spm=a2g0o.order_detail.order_detail_item.9.30154f03ARKf2e	
	U12, 1	24LC32	24LC32	https://www.aliexpress.com/item/1005007109141216.html?spm=a2g0o.cart.0.0.110c38dab4kaqM∓=1	Package DIP:DIP-8 W7.62mm
\rightarrow	U13, U14, U15, U16, U17, U18, 6	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
	U13_socket, U14_socket, U15_socket,	ULINZUUSA	OLIVZOUDAIN DIF	THE PROPERTY OF THE PROPERTY O	I dende Dir Dir To W7.0211111 LOIIBraus
	U16_socket, U17_socket, U18_socket, 6	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
\rightarrow			<u>'</u>		rackage_Dir.Dir-10_W7.02IIIII_Loligraus
	U20 U21, U22 3	BSS138	Logic level converter	https://www.aliexpress.com/item/1005006096023556.html?spm=a2g0o.cart.0.0.512038daUH9mqE∓=1	
	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
1	Hardware nylon Standoff 1	F-F nylon Stand	off M2 Black nylon mix 300pcs	https://www.aliexpress.com/item/32869450950.html?spm=a2g0o.cart.0.0.5bee38daupPiNY∓=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	
$\overline{}$	PCB InterconnectIO Board 1	660-1000-011	Gerbers to order	https://ilcpcb.com/	<u> </u>
\dashv	1	200 2000 011	55.55.5 55 51461		+
-	026 027 020 020 020 024 022 022 42	DCC120	DCC120	Not installed use already assembled module	Import library/COT 22W/ CHORT
	Q26, Q27, Q28, Q29, Q30, Q31, Q32, Q33, 12	BSS138	BSS138	Not installed, use already assembled module	Import_library:SOT-23W_SHORT
	R42, R43, R44, R45, R46, R47, R48, R49, R5 24	10K	R_US	Not installed, use already assembled module	Resistor_SMD:R_0603_1608Metric
7	R73, R74, R78, R79, R80, R81, R82,	10K	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
\dashv	D02	101/			
_	noo, 1	TUN	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
_ T	C9, C10, C11, C12, 4	100n	C_Small	Not installed, use already assembled module	Capacitor_SMD:C_0603_1608Metric_Pad1.08x0.95mm_HandSolder
\neg	C15, 1	0.1uF	C_Small	Not installed, use already assembled module	Capacitor_SMD:C_0805_2012Metric_Pad1.18x1.45mm_HandSolder
- 1				<u> </u>	
\dashv					Connector_Dsub:DSUB-9_Female_Horizontal_P2.77x2.84mm_EdgePir