

CTR2-Mini I/O Multiplexer Bill-of-Material

These are the parts you'll need if you are building the [CTR2-Mini I/O Multiplexer](#) from the bare PCB kit
 A complete BOM is available on Mouser.com to order these parts with just a couple of clicks.

[Mouser BOM](#)

ID	Quant	Desc	Manufacturer	Part #	Mouser #	Notes
D5-D8	4	Red 3mm LED	Kingbright	WP710A10ID	604-WP710A10ID	
ADR0, ADR1, J1	1	10-pin 2.54mm header to create these jumpers	Amphenol	68001-410HLF	649-68001-410HLF	
J2, J2	2	Single port RJ45 jack	Amphenol	RJHSE-5381	523-RJHSE-5381	
J3, J4	2	7-pin 2.54mm pin sockets for Xiao	Samtec	SSQ-107-03-T-S	200-SSQ10703TS	
J6 (jack)	1	5-pin Pluggable Terminal Block socket 3.5mm	Molex	39502-1005	538-39502-1005	For external antenna switch
J6 (plug)	1	5-pin Pluggable Terminal Block plug 3.5mm	Molex	39500-5005	538-39500-5005	For external antenna switch
J7	1	4-port RJ45 jack	Amphenol	RJHSE-5384	523-RJHSE-5385-04	
K1 to K16	16	DPDT Low-Signal Non-latching Relay	Kemet	EC2-5NU	80-EC2-5NU	Each port requires 4 relays
Xiao	1	Xiao SAMD21 Development Board	Seeed Studios	102010388	713-102010388	
Pin Jumpers	3	.1mm pin jumpers for option strapping	Harwin	M7581-46	855-M7581-46	
Enclosure	1	5.2" x 3.3" x 1.2" black enclosure	PacTec	71913-510-000 CM3-100 Black Kit	616-71913-510-000	Grey or Bone colors available

Approximate cost of Mouser parts as of Feb. 10, 2023	\$	63.04
UPS Shipping to US	\$	7.99
Tax		TBD
Total (w/o tax)	\$	71.03