

FC Cartridge bus simulator "tuna" BOM list

Reference	Qty	Value	Name	Package type	Note
C1	1	10uF	10uF	0805/2012	Any manufacturer. Rated voltage should be 6.3V or higher.
C2,C3,C4,C5,C6,C7	6	0.1uF	0.1uF	0603/1608	Any manufacturer. Rated voltage should be 6.3V or higher.
CN1	1	FAMICOM_EDGE_CONNECTOR	5530843-7 (TE Connectivity) CR22A-60D-2.54DS(70) (HIROSE)	Through hole	Card edge connector 2.54mm(0.1inch) pitch 60pins.
D1	1	BAT43VX2	BAT43VX2 (ON semiconductor)	SOD-523	Any manufacturer with similar specifications.
D2	1	ACCESS	OSO50805C1C (OptoSupply, Orange)	0805/2012	Any color, any manufacturer.
D3	1	USB POWER	OSR50805C1C (OptoSupply, Red)	0805/2012	Any color, any manufacturer.
F1	1	Polyfuse_Small	MF-PSMF020X-2 (Bourns)	0805/2012	Hold 200mA, Trip at 500mA. Any similar specifications.
Q1	1	IRLML6402	Pch MOSFET IRLML6402	SOT-23	Any manufacturer with similar specifications.
R1	1	10K	10K ohm	0603/1608	Any manufacturer.
R2	1	150	150 ohm	0603/1608	Any manufacturer.
R3,R5	2	1K	1K ohm	0603/1608	Any manufacturer.
R4	1	330	330 ohm	0603/1608	Any manufacturer.
RN1,RN2,RN3,RN4	4	4.7K	CAY16A-472J4LF (Bourns)	4x0603	Any manufacturer.
SW1	1	SW_NKK_GW12LJPF	GW12LJPF (NKK Switches)	Through hole	Any like color.
U1	1	Pico	Rasiberry Pi Pico RP2040	SMD	The Raspberry Pi Foundation product. Any manufacturer with similar specifications.
U2	1	SN74AHCT1G125DBV	Buffer	SOT-23-5	TTL level input and input power down protection required.
U3,U4	2	SN74CB3T3245PW	8-channel FET bus switch with level shifter	TSSOP-20_4.4x6.5mm_P0.65mm	Texas Instruments Inc. only. Any manufacturer with similar specifications.
U5,U6	2	74VHCT574	Octal flip flop	TSSOP-20_4.4x6.5mm_P0.65mm	TTL level input and input power down protection required.

Note: This BOM lists the ones used by the author. Compatible products exist for most parts.