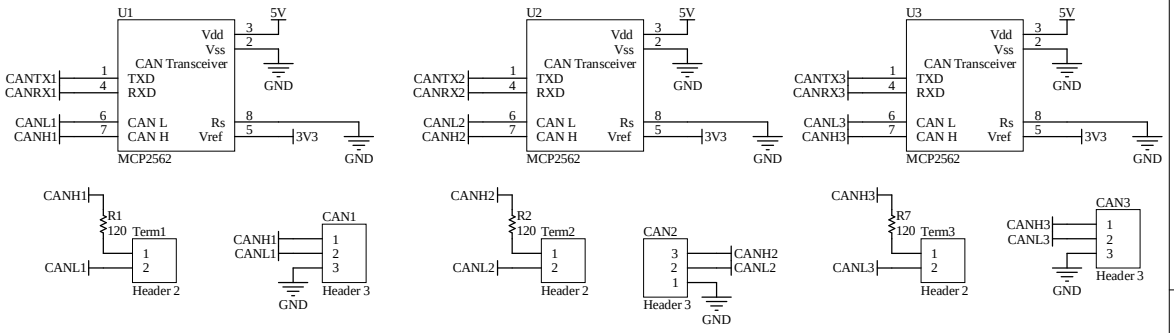
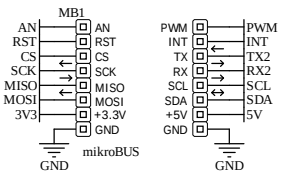
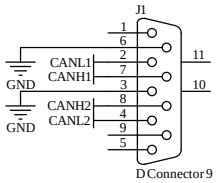
CAN Transceivers

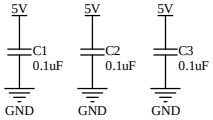


MikroBus Expansion

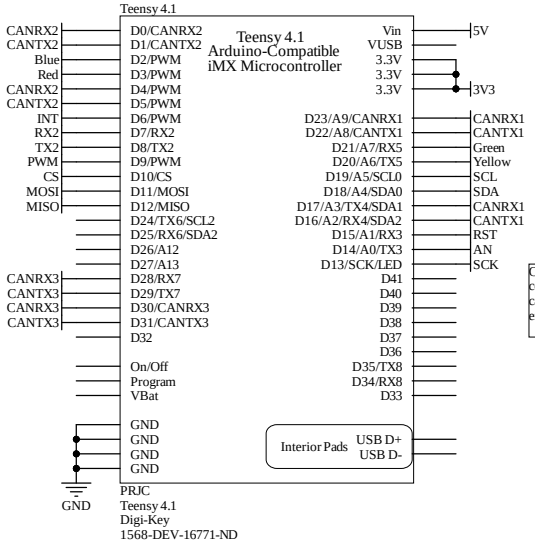


Vehicle Network Connection

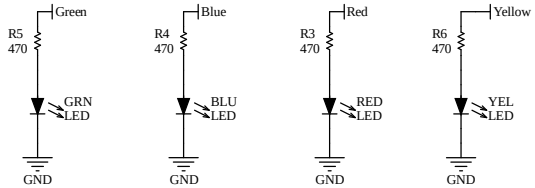


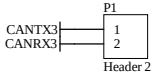


The Teensy 4.1 provides an SD card slot. The pins are compatible with the Teensy 4.0.



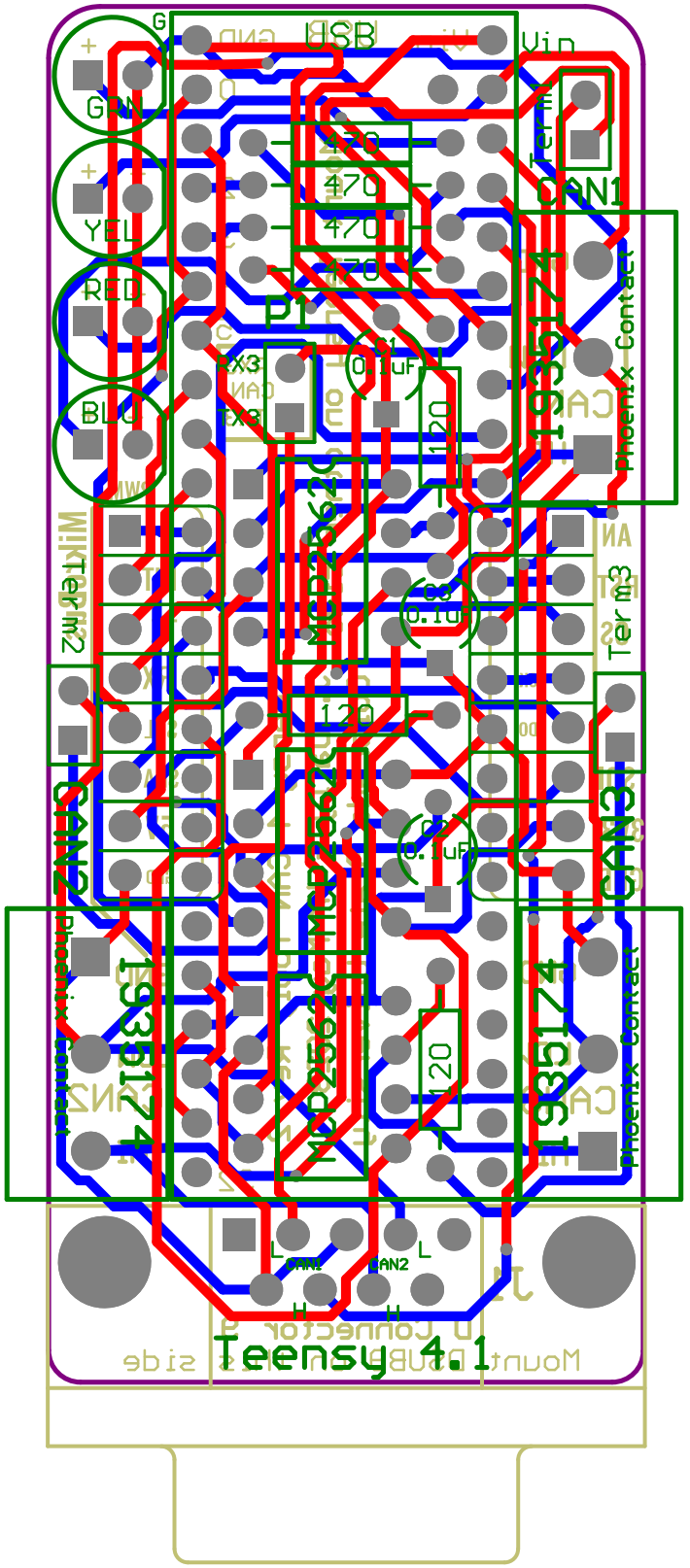
CANTX and CANRX lines are also connected to GPIO pins so the tool can also capture bit edges and encode the bits directly.





Use P1 to connect CAN3 if using the Teesy 4.0. Solder thin wires to the bottom of the Teensy 4.0

Title: Teensy 4 CAN Tool		
Size: Letter	Number:	Revision: 2
Date: 5/17/2023	Sheet of	
File: C:\Users\..\Teensy4-CANTool-Rev2.SchDoc	Drawn By:	


GRN
YEL
RED
BLK
USB
Vin
CAN1
CAN2
CAN3
1935174
Phoenix Contact
WikiTerm2
Ter m3
Teensy 4.1

Line #	Name	Description	Designator	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
1	Board Headers	24 pin sockets		2	Sullins	PPPC241LFBN-RC	Volume Production	Digi-Key	S7057-ND	1.43	2.86
2	Teensy Headers	24 pins spaced 0.100" apart		2	Sullins	PRPC024SFAN-RC	Volume Production	Digi-Key	S1211EC-24-ND	0.68	1.36
3	Term Resistor Header	6 Pins to hold shunts		1	Sullins	PRPC006SFAN-RC	Volume Production	Digi-Key	S1211EC-06-ND	0.21	0.21
4	LED	Blue 470nm LED Indication - Discrete 3.2V Radial	BLU	1	Wurth Electronics	151051BS04000	Volume Production	Digi-Key	732-5015-ND	0.26	0.26
	0.1uF	0.1µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	C1, C2, C3	3	Vishay BCcomponents	K104K15X7RF53H5	Unknown	Digi-Key	BC3323-ND	0.23	0.69
5	Header 3	Header, 3-Pin	CAN1, CAN2, CAN3	3	Phoenix Contact	PT1.5/3-5.0-H	Volume Production	Digi-Key	277-1578-ND	0.71	2.13
6	LED	Green 572nm LED Indication - Discrete 2.1V Radial	GRN	1	Wurth Electronics	151051VS04000	Volume Production	Digi-Key	732-5017-ND	0.26	0.26
7	D Connector 9	CONN D-SUB PLUG 9POS R/A SLDR	J1	1	Assmann	A-DS-09-A/KG-T2S	Volume Production	Digi-Key	AE10968-ND	0.78	0.78
	Header 2	Header, 2-Pin	P1	1							
8	120	120 Ohms ±5% 0.25W, 1/4W Through Hole Resistor Axial Carbon Film	R1, R2, R7	3	Yageo	CFR-25JB-52-120R	Volume Production	Digi-Key	120QBK-ND	0.1	0.3
9	470	470 Ohms ±5% 0.25W, 1/4W Through Hole Resistor Axial Carbon Film	R3, R4, R5, R6	4	Yageo	CFR-25JB-52-470R	Volume Production	Digi-Key	470QBK-ND	0.1	0.4
10	LED	Red 645nm LED Indication - Discrete 2.1V Radial	RED	1	Wurth Electronics	151051RS11000	Volume Production	Digi-Key	732-5016-ND	0.17	0.17
11	Teensy 4.1	32 Bit Arduino-Compatible iMX Microcontroller	Teensy 4.1	1	SparkFun	16771	Unknown	Digi-Key	1568-DEV-16771-ND	33.08	33.08
12	Header 2	2 (1 x 2) Position Shunt Connector Open Top, Grip 0.100" (2.54mm) Gold	Term1, Term2, Term3	3	Sullins	NPC02SXON-RC	Volume Production	Digi-Key	S9341-ND	0.11	0.33
13	MCP2562	1/1 Transceiver CANbus 8-PDIP	U1, U2, U3	3	Microchip	MCP2562FD-E/P	Volume Production	Digi-Key	MCP2562FD-E/P-ND	1.38	4.14
14	LED	Yellow 590nm LED Indication - Discrete 2V Radial	YEL	1	Wurth Electronics	151051YS04000	Volume Production	Digi-Key	732-5018-ND	0.23	0.23