

Truck Duck Board Bill of Materials

June 2016 - DEF CON 24

CHECK FOR UPDATES AT: <http://truckhacking.github.io>

Designator(s)	Description	Package/Footprint	Qty	Manufacturer	Part Number	Preferred Vendor	Substitute OK?	Notes
D1	Power LED	0805	1	OSRAM	LG R971-KN-1	Digikey	Y	
PTC1	Thermal Fuse, 2A Hold, 4A Trip	Custom	1	LittleFuse	2920L200/24DR	Digikey	N	
TVS1	Transient Voltage Suppressor	DO-214AC	1	Bourns	SMAJ30A	Digikey	Y	
Q1	Reverse Polarity Protection FET	SOIC8	1	Internation Rectifier	IRF9388TRPBF	Digikey	N	
VR1	Switching Voltage Regulator	TO-220 (Inverted)	1	Murata	OKI-78SR-5/1.5-W36H-C	Digikey	N	
P1_P2	BeagleBone Header	0.100" Header	2	Sullins	PRPC023DAAN-RC	Digikey	Y	
P3, P4	Screw Terminal	Custom	2	Phoenix Contact	1725685	Digikey	N	
U1, U8	J1708 (RS485) Transceiver	SOIC8	2	Texas Instruments	SN65HVD08D	Digikey	N	
U2, U7	Inverter for J1708	SOT-23-5	2	Fairchild Semi	NC7SZ04MSX	Digikey	N	
U3, U4	CAN Bus Transceiver	SOIC8	2	Texas Instruments	SN65HVD232DR	Digikey	N	
U6	Buffer/Bi-directional Level Shifter	TSSOP-20	1	Texas Instruments	TXS0108EPWR	Digikey	N	
J1	DSUB-15 Vehicle Connector	DSUB-15	1	FCI	ID15S33E4GX00LF	Mouser	Y	Substitute TE 1-1634585-2
R1	Power LED Resistor	0805	1	Panasonic	ERJ-6ENF4700V	Digikey	Y	
C1	100uF 50V Aluminum Electrolytic Capacitor	6.3x7.7 SMD	1	Nichicon	UCM1H101MCL1GS	Digikey	Y	
C2	47uF 10V Ceramic Capacitor	1206	1	Taiyo Yuden	LMK316BJ106KLHT	Digikey	Y	
C3, C4, C5, C6	560pF Ceramic Filter Cap, CAN Lines	0603	4	Kemet	C0603C561J5GACTU	Digikey	Y	
R3, R4, R6, R7	100 Ohm Resistor, CAN Bus	0603	4	Panasonic	ERJ-3EKF1000V	Digikey	Y	
R2, R5, R8, R11, R12, R15, R16	4.7K Pull Up/Down Resistors	0603	7	Panasonic	ERJ-3EKF4701V	Digikey	Y	
R9, R10, R13, R14	47 Ohm Resistors, J1708 Bus	0603	4	Panasonic	ERJ-3GEY1470V	Digikey	Y	
C7	0.1 uF Bypass Cap for Level Shifter	0603	1	AVX	0603YC104KAT2A	Digikey	Y	
PCB	Printed Circuit Board	Custom	1	Many	NA	Many	N	