

Ref	Qty	Value	Cmp name	Footprint	Description	Vendor	Unit	Price total
C1,	1	100 pF	C_Small	Capacitor_SMD:C_0603_1608Metric	Unpolarized capacitor, small symbol		0.03	0.03
C2, C4, C9,	3	1 uF	C_Small	Capacitor_SMD:C_0603_1608Metric	Unpolarized capacitor, small symbol		0.03	0.09
C3,	1	1 nF	C_Small	Capacitor_SMD:C_0603_1608Metric	Unpolarized capacitor, small symbol		0.03	0.03
C5,	1	100 nF	C_Small	Capacitor_SMD:C_0603_1608Metric	Unpolarized capacitor, small symbol		0.03	0.03
C6, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21,	12	0.47 uF	C_Small	Capacitor_SMD:C_0402_1005Metric	Unpolarized capacitor, small symbol		0.03	0.36
C7, C8, C10,	3	0.1 uF	C_Small	Capacitor_SMD:C_0603_1608Metric	Unpolarized capacitor, small symbol		0.03	0.09
D1,	1	RED	LED	LED_SMD:LED_PLCC-2	Light emitting diode		0.2338	0.2338
H1, H2, H3,	3	MountingHole:MountingHole	MountingHole	MountingHole_3mm	Mounting Hole without connection			0
J1,	1	SWD	Conn_02x05_(Connector_PinHeader_1.27mm:PinHeader_2x05	Generic connector, double row, 02x05, odd/even		0.765	0.765
J2,	1	INPUT_0	Conn_01x04	Connector_PinSocket_1.27mm:PinSocket_1x04	Generic connector, single row, 01x04, script gen		0.333	0.333
J3,	1	INPUT_1	Conn_01x04	Connector_PinSocket_1.27mm:PinSocket_1x04	Generic connector, single row, 01x04, script gen		0.3145	0.3145
J4,	1	CANBUS	Conn_02x05_(Connector_PinHeader_1.27mm:PinHeader_2x05	Generic connector, double row, 02x05, odd/even		0.765	0.765
J5,	1	INPUT_2	Conn_01x04	Connector_PinSocket_1.27mm:PinSocket_1x04	Generic connector, single row, 01x04, script gen		0.333	0.333
J6,	1	POWER	Conn_01x02	ence461_kicad:TB002-500	Generic connector, single row, 01x02, script gen		0.3893	0.3893
JP1,	1	CAN_HIGH	SolderJumper_Jumper:	SolderJumper-3_P1.3mm_Open_Pad1.3mm	Solder Jumper, 3-pole, open			0
JP2,	1	CAN_LOW	SolderJumper_Jumper:	SolderJumper-3_P1.3mm_Open_Pad1.3mm	Solder Jumper, 3-pole, open			0
Q1,	1	Q_PMOS_(Q_	PMOS_GSD	Package_TO_SOT_SMD:SOT-723	P-MOSFET transistor, gate/source/drain		0.1305	0.1305
R1, R2,	2	4K7	R_Small	Resistor_SMD:R_0603_1608Metric	Resistor, small symbol		0.19	0.38
R3, R6, R9, R12, R15, R18, R21, R24, R27, R30, R33, R36,	12	100 K	R_Small	Resistor_SMD:R_0603_1608Metric	Resistor, small symbol		0.19	2.28
R4, R7, R10, R13, R16, R19, R22, R25, R28, R31, R34, R37,	12	1 K	R_Small	Resistor_SMD:R_0603_1608Metric	Resistor, small symbol		0.19	2.28
R5, R8, R11, R14, R17, R20, R23, R26, R29, R32, R35, R38,	12	10 R	R_Small	Resistor_SMD:R_0603_1608Metric	Resistor, small symbol		0.19	2.28
R39, R40,	2	60 R	R_Small	Resistor_SMD:R_0603_1608Metric	Resistor, small symbol		0.19	0.38
R41,	1	220 R	R_Small	Resistor_SMD:R_0603_1608Metric	Resistor, small symbol		0.19	0.19
R42, R43, R44,	3	10 K	R_Small	Resistor_SMD:R_0603_1608Metric	Resistor, small symbol		0.19	0.57
R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56,	12	560 R	R_Small	Resistor_SMD:R_0402_1005Metric	Resistor, small symbol		0.19	2.28
U1, U2, U3,	3	LMV324	LMV324	Package_SO:TSSOP-14_4.4x5mm_P0.65mm	Quad Low-Voltage Rail-to-Rail Output Operational Amplifier		0.36704	1.10112
U4,	1	74HC3G14	74HC3G14DP	Package_SO:VSSOP-8_2.3x2mm_P0.5mm	Inverter IC 3 Channel Schmitt Trigger 8-TSSOP		0.4931	0.4931
U5,	1	LMV321	LMV321	Package_TO_SOT_SMD:SOT-23-5	Low-Voltage Rail-to-Rail Output Operational Amplifier		0.4338	0.4338
U6,	1	NCV7344D	NCV7344D13F	Package_SO:SOIC-8_3.9x4.9mm_P1.27mm	High Speed Low Power CAN, CAN FD Transceiver		0.9426	0.9426
U7,	1	MIC5202	MIC5202	Package_SO:SOIC-8_3.9x4.9mm_P1.27mm	Dual 100 mA Low-Dropout Regulator		1.87	1.87
U9,	1	MKE16Z32	MKE16Z32VLC	Package_QFP:LQFP-44_10x10mm_P0.8mm	Kinetis KE1xZ with up to 64 KBFlash		4.6051	4.6051
Conn_CAN	1		CONN SOCKET 10POS IDC GOLD		10 Position Rectangular Connector	CNC Tech	1.8759	1.8759
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TOTAL for BOARD								25.85572
Cbl_ribbon	1	100 ft					85.36	85.36
Cbl_pwr_rd	1	50m	67010 RD321		17 AWG Hook-Up Wire 6 Alpha Wire		177.12	177.12
Cbl_pwr_bk	1	50m	67010 RD321		17 AWG Hook-Up Wire 6 Alpha Wire		177.12	177.12
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TOTAL external								439.6
TOTAL amortised per BOARD								30.633981