





Item #	Quantity	Designator	Comment	Footprint	Description	Manufacturer	PartNumber	Supplier 1	Supplier Part Number 1	Name Error:Alt
1	1	BeagleBoneBlack1	BeagleBoneBlack	Beagleboneblack	46 Positions Header, Breakaway Connector 0.100" (2.54mm) Through Hole Tin	Sullins Connector Solutions	PREC023DAAN-RC	Digi-Key	S2012EC-23-ND	
		-	-					- 1		
2	5	,,,,	0.1uF	CAPR5-4X5	CAP CER 0.1UF 100V X7R RADIAL	Vishay BC Components	K104K20X7RH53H5	Digi-Key	BC5139-ND	
3	3	C2, C3, C10	1uF	CAPR5-4X5	CAP CER 1UF 100V X7R RADIAL	Murata Electronics North	RDER72A105K2M1H03A	Digi-Key	490-9198-1-ND	
						America				
4	2	C7, C8	220uF	Elec. Cap 5 x 10mm	220µF 50V Aluminum Electrolytic Capacitors Radial, Can 175 mOhm @ 10kHz	EPCOS (TDK)	B41858C6227M000	Digi-Key	495-6000-ND	
		D.	STPS2150	DO-41	5000 Hrs @ 105°C	STMicroelectronics	STPS2150	Divite.	407.0040.4.ND	
5	1				Diode Schottky 150V 2A Through Hole DO-15			Digi-Key	497-3213-1-ND	
6	1	D2	LED	Hole	Green 569nm LED Indication - Discrete 2.1V Radial	Lite-On Inc.	LTL-4233	Digi-Key	<u>160-1130-ND</u>	
7	2	J1, J2	Molex 39-30-1100	10 pos Mini-Fit Jr.	10 Positions Header Connector 0.165" (4.20mm) Through Hole, Right Angle Tin	Molex	39-30-1100	Digi-Key	WM1355-ND	
'	2	31, 32	Wolex 39-30-1100	R/A Header	110 Fositions Fleader Conflector 0.103 (4.20min) milough Flore, Right Angle Tin	IVIOLEX	39-30-1100	Digi-Rey	<u>WWW1333-ND</u>	
8	6	K1, K2, K3, K4, K5, K6	EC2-5NU Relav-	RELAY - EC2	General Purpose Relay DPDT (2 Form C) Through Hole	KEMET	EC2-5NU	Digi-Key	399-11052-5-ND	
Ů	Ü	10, 112, 110, 111, 110, 110	DPDT		Solician appose ready by by (2 remit of missagn reso		202 0.10	2.9. 1.0)	<u> </u>	
9	1	P1	Use this part in J1-1	HDR1X6	CONN HEADER FEMALE 6POS .1" GOLD	Sullins Connector Solutions	PPPC061LFBN-RC	Digi-Key	S7039-ND	
			to J1-6							
10	2	P2, P3	Header 8H	8 CKT Spring Header	8 Position Wire to Board Terminal Block Vertical with Board 0.100" (2.54mm)	Phoenix Contact	1789472	Digi-Key	277-14044-ND	
					Through Hole					
11	1		RKEF110	PTC	Polymeric PTC Resettable Fuse 60V 1.1A Ih Through Hole Radial, Disc	Littelfuse Inc.	RKEF110	Digi-Key	RKEF110HF-ND	
12	7	R1, R2, R3, R6, R7, R11,	4.7k	Axial-0.4	RES SMD 4.7K OHM 1% 1/10W 0603	Yageo	CFR-25JB-52-4K7	Digi-Key	4.7KQBK-ND	
		R13								
13	4	R4, R5, R9, R10	47	Axial-0.4	47 Ohms ±5% 0.25W, 1/4W Through Hole Resistor Axial Carbon Film	Yageo	CFR-25JB-52-47R	Digi-Key	47QBK-ND	
14	2	R8, R12	120	Axial-0.4	120 Ohms ±0.1% 0.25W, 1/4W Through Hole Resistor Axial Metal Film	Yageo	MFP-25BRD52-120R	Digi-Key	120ADCT-ND	
15	1	-	SN74LS126AN	N14A	Quad 3-State Buffer	Texas Instruments	SN74LS126AN	Digi-Key	296-3643-5-ND	
16	1	U2	ULQ2003 Darlington	DIP16	High voltage, high current Darlington arrays each containing seven open collector	Texas Instruments	ULQ2003AN	Digi-Key	296-22623-5-ND	
17	2	U3, U5	Array MCP2562	DIP8	Darlington pairswith common emitters.  1/1 Transceiver Half CAN 8-PDIP	Microchip Technology	MCP2562-E/P	Digi-Key	MCP2562-E/P-ND	
18	1	U4	LTV-817	DIP-4	Optoisolator Transistor Output 5000Vrms 1 Channel 4-DIP	Lite-On Inc.	LTV-817	Digi-Key Digi-Key	160-1366-5-ND	
19	1	U6	OKI-78SR	OKI-78SR	5V DC/DC Converter (7805 replacement)	Murata Power Solutions Inc.	OKI-78SR-5/1.5-W36H-C	Digi-Key Digi-Key	811-2692-ND	
19	'		OIN-700IN	OKI-703K	100 DO/DO CONVENEN (1000 replacement)	widiata i owei Solutions inc.	OKI-700K-3/1.3-W30FFC	Digi-Rey	011-2092-ND	
20	1	U7	SN74AHC14N	DIP14	Inverter IC 6 Channel Schmitt Trigger 14-PDIP	Texas Instruments	SN74AHC14N	Digi-Key	296-4550-5-ND	
21	2	U8, U9	SN75HVD12	DIP8	IC 3.3V DIFF TXRX 8-SOIC	Texas Instruments	SN75HVD12P	Digi-Key	SN75HVD12P	
22	1	Z1	TP1.5KE30CA	DIODE-0.7	TVS DIODE 25.6V 41.4V DO201	Littelfuse Inc.	TP1.5KE30CA	Digi-Key	F7610CT-ND	
22	1	Z1	TP1.5KE30CA	DIODE-0.7	TVS DIODE 25.6V 41.4V DO201	Littelfuse Inc.	TP1.5KE30CA	Digi-Key	F7610CT-ND	