

board

				Digi-key			
Part	Type	Value	Package	Digi-key part #	MFG	MPN	LINK
BAT1	Battery holder	CR1220		952-1745-1-ND	Harwin Inc.	S8411-45R	<a href="http://www.digikey.com/product-detail/en/S8411-45R/952-1745-1-ND">http://www.digikey.com/product-detail/en/S8411-45R/952-1745-1-ND</a>
D1	Diode	20V/1A	SOD-123	568-4114-1-ND	NXP Semiconductors	PMEG2010EH,115	<a href="http://www.digikey.com/product-detail/en/PMEG2010EH,115/568-4114-1-ND">http://www.digikey.com/product-detail/en/PMEG2010EH,115/568-4114-1-ND</a>
F1	PPTC	6V/500mA	1206	F2112CT-ND	Littelfuse Inc.	1206L050YR	<a href="http://www.digikey.com/product-detail/en/1206L050YR/F2112CT-ND">http://www.digikey.com/product-detail/en/1206L050YR/F2112CT-ND</a>
R1	Potentiometer	50K/10%	PTH	3362P-503LF-ND	Bourns Inc.	3362P-1-503LF	<a href="http://www.digikey.com/product-detail/en/3362P-1-503LF/Bourns-Inc">http://www.digikey.com/product-detail/en/3362P-1-503LF/Bourns-Inc</a>
R2	Resistor	82K 5% 1/8W	0805	RHM82KCPCT-ND	Rohm Semiconductor	MCR10ERTJ823	<a href="http://www.digikey.com/product-detail/en/MCR10ERTJ823/Rohm-Semiconductor">http://www.digikey.com/product-detail/en/MCR10ERTJ823/Rohm-Semiconductor</a>
R3	LDR	100K Pitch: 2.54mm	PTH	PDV-P9005-1-ND	Advanced Photonix Inc	PDV-P9005-1	<a href="http://www.digikey.com/product-detail/en/PDV-P9005-1/Advanced-Photonix-Inc">http://www.digikey.com/product-detail/en/PDV-P9005-1/Advanced-Photonix-Inc</a>
R4	Resistor	100K 5% 1/8W	0805	541-100KACT-ND	Vishay Dale	CRCW0805100KJNEA	<a href="http://www.digikey.com/product-detail/en/CRCW0805100KJNEA/Vishay-Dale">http://www.digikey.com/product-detail/en/CRCW0805100KJNEA/Vishay-Dale</a>
R5	Resistor	100K 5% 1/8W	0805	541-100KACT-ND	Vishay Dale	CRCW0805100KJNEA	<a href="http://www.digikey.com/product-detail/en/CRCW0805100KJNEA/Vishay-Dale">http://www.digikey.com/product-detail/en/CRCW0805100KJNEA/Vishay-Dale</a>
C1	Capacitor	2.2uF/25V/X7R	0805	311-1881-1-ND	YAGEO	CC0805KKX7R7BB225	<a href="http://www.digikey.com/product-detail/en/CC0805KKX7R7BB225/YAGEO">http://www.digikey.com/product-detail/en/CC0805KKX7R7BB225/YAGEO</a>
C2	Capacitor	2.2uF/25V/X7R	0805	311-1881-1-ND	YAGEO	CC0805KKX7R7BB225	<a href="http://www.digikey.com/product-detail/en/CC0805KKX7R7BB225/YAGEO">http://www.digikey.com/product-detail/en/CC0805KKX7R7BB225/YAGEO</a>
C3	Capacitor	2.2uF/25V/X7R	0805	311-1881-1-ND	YAGEO	CC0805KKX7R7BB225	<a href="http://www.digikey.com/product-detail/en/CC0805KKX7R7BB225/YAGEO">http://www.digikey.com/product-detail/en/CC0805KKX7R7BB225/YAGEO</a>
SW1	Switch	Slide switch DPDT 1000mA	PTH	CKC5100-ND	C&K Components	L202011MS02Q	<a href="http://www.digikey.com/product-detail/en/L202011MS02Q/C&amp;K-Components">http://www.digikey.com/product-detail/en/L202011MS02Q/C&amp;K-Components</a>
X1	Power Jack	2.1mm	PTH	CP-102A-ND	CUI Inc.	PJ-102A	<a href="http://www.digikey.com/product-detail/en/PJ-102A/CUI-Inc">http://www.digikey.com/product-detail/en/PJ-102A/CUI-Inc</a>
X2	Connector	JST PH 2P (Pitch: 2mm) vertical	PTH	455-1704-ND	JST Sales America Inc.	B2B-PH-K-S(LF)(SN)	<a href="http://www.digikey.com/product-detail/en/B2B-PH-K-S(LF)(SN)/JST-Sales-America-Inc">http://www.digikey.com/product-detail/en/B2B-PH-K-S(LF)(SN)/JST-Sales-America-Inc</a>
X4	Pin header	1x8P 2.54mm female vertical black	PTH	S7041-ND	Sullins Connector Solutions	PPPC081LFBN-RC	<a href="http://www.digikey.com/product-detail/en/PPPC081LFBN-RC/Sullins-Connector-Solutions">http://www.digikey.com/product-detail/en/PPPC081LFBN-RC/Sullins-Connector-Solutions</a>
X8	Pin header	1x8P 2.54mm female vertical black	PTH	S7041-ND	Sullins Connector Solutions	PPPC081LFBN-RC	<a href="http://www.digikey.com/product-detail/en/PPPC081LFBN-RC/Sullins-Connector-Solutions">http://www.digikey.com/product-detail/en/PPPC081LFBN-RC/Sullins-Connector-Solutions</a>
X9	Pin header	1X10P 2mm female vertical black	PTH	S5751-10-ND	Sullins Connector Solutions	NPPN101BFCN-RC	<a href="http://www.digikey.com/product-detail/en/NPPN101BFCN-RC/Sullins-Connector-Solutions">http://www.digikey.com/product-detail/en/NPPN101BFCN-RC/Sullins-Connector-Solutions</a>
X10	Pin header	1X10P 2mm female vertical black	PTH	S5751-10-ND	Sullins Connector Solutions	NPPN101BFCN-RC	<a href="http://www.digikey.com/product-detail/en/NPPN101BFCN-RC/Sullins-Connector-Solutions">http://www.digikey.com/product-detail/en/NPPN101BFCN-RC/Sullins-Connector-Solutions</a>

optional (female header for Teensy)

X3	Pin header	1x5P 2.54mm female vertical black	PTH	S7038-ND	Sullins Connector Solutions	PPPC051LFBN-RC	<a href="http://www.digikey.com/product-detail/en/PPPC051LFBN-RC/Sullins-Connector-Solutions">http://www.digikey.com/product-detail/en/PPPC051LFBN-RC/Sullins-Connector-Solutions</a>
X5	Pin header	1x14P 2.54mm female vertical black	PTH	S7047-ND	Sullins Connector Solutions	PPPC141LFBN-RC	<a href="http://www.digikey.com/product-detail/en/PPPC141LFBN-RC/Sullins-Connector-Solutions">http://www.digikey.com/product-detail/en/PPPC141LFBN-RC/Sullins-Connector-Solutions</a>
X6	Pin header	1x14P 2.54mm female vertical black	PTH	S7047-ND	Sullins Connector Solutions	PPPC141LFBN-RC	<a href="http://www.digikey.com/product-detail/en/PPPC141LFBN-RC/Sullins-Connector-Solutions">http://www.digikey.com/product-detail/en/PPPC141LFBN-RC/Sullins-Connector-Solutions</a>
X7	Pin header	1x5P 2.54mm female vertical black	PTH	S7038-ND	Sullins Connector Solutions	PPPC051LFBN-RC	<a href="http://www.digikey.com/product-detail/en/PPPC051LFBN-RC/Sullins-Connector-Solutions">http://www.digikey.com/product-detail/en/PPPC051LFBN-RC/Sullins-Connector-Solutions</a>

board

				seedstudio OPL			
Part	Type	Value	Package	OPL part #	MFG	MPN	LINK
BAT1	Battery holder	CR1220		320170000	?	?	<a href="http://www.seedstudio.com/depot/index.php?main_pag">http://www.seedstudio.com/depot/index.php?main_pag</a>
D1	Diode	20V/1A	SOD-123	304020034	Micro Commercial Components	B5819W	<a href="http://www.seedstudio.com/depot/index.php?main_pag">http://www.seedstudio.com/depot/index.php?main_pag</a>
F1	PPTC	6V/500mA	1206	307010002	TIANRUI	SMD1206R500SF	<a href="http://www.seedstudio.com/depot/index.php?main_pag">http://www.seedstudio.com/depot/index.php?main_pag</a>
R1	Potentiometer	50K/10%	PTH	301040031	Bourns Inc.	3362P-1-503LF	<a href="http://www.seedstudio.com/depot/index.php?main_pag">http://www.seedstudio.com/depot/index.php?main_pag</a>
R2	Resistor	82K 5% 1/8W	0805	n/a			
R3	LDR	100K Pitch: 2.54mm	PTH	n/a			
R4	Resistor	100K 5% 1/8W	0805	301010396	YAGEO	RC0805FR-07100KL	<a href="http://www.seedstudio.com/depot/index.php?main_pag">http://www.seedstudio.com/depot/index.php?main_pag</a>
R5	Resistor	100K 5% 1/8W	0805	301010396	YAGEO	RC0805FR-07100KL	<a href="http://www.seedstudio.com/depot/index.php?main_pag">http://www.seedstudio.com/depot/index.php?main_pag</a>
C1	Capacitor	2.2uF/25V/X7R	0805	302010148	YAGEO	CC0805KKX7R8BB225	<a href="http://www.seedstudio.com/depot/index.php?main_pag">http://www.seedstudio.com/depot/index.php?main_pag</a>
C2	Capacitor	2.2uF/25V/X7R	0805	302010148	YAGEO	CC0805KKX7R8BB225	<a href="http://www.seedstudio.com/depot/index.php?main_pag">http://www.seedstudio.com/depot/index.php?main_pag</a>
C3	Capacitor	2.2uF/25V/X7R	0805	302010148	YAGEO	CC0805KKX7R8BB225	<a href="http://www.seedstudio.com/depot/index.php?main_pag">http://www.seedstudio.com/depot/index.php?main_pag</a>
SW1	Switch	Slide switch DPDT 1000mA	PTH	n/a			
X1	Power Jack	2.1mm	PTH	320120003	BEST	DC-005	<a href="http://www.seedstudio.com/depot/index.php?main_pag">http://www.seedstudio.com/depot/index.php?main_pag</a>
X2	Connector	JST PH 2P (Pitch: 2mm) vertical	PTH	320110049	ZUANBAO	ZB2001-02	<a href="http://www.seedstudio.com/depot/index.php?main_pag">http://www.seedstudio.com/depot/index.php?main_pag</a>
X4	Pin header	1x8P 2.54mm female vertical black	PTH	320030061	YXCON	F185-1108A1BSYC1	<a href="http://www.seedstudio.com/depot/index.php?main_pag">http://www.seedstudio.com/depot/index.php?main_pag</a>
X8	Pin header	1x8P 2.54mm female vertical black	PTH	320030061	YXCON	F185-1108A1BSYC1	<a href="http://www.seedstudio.com/depot/index.php?main_pag">http://www.seedstudio.com/depot/index.php?main_pag</a>
X9	Pin header	1X10P 2mm female vertical black	PTH	320030009	YXCON	F243-1110A1BSUA1	<a href="http://www.seedstudio.com/depot/index.php?main_pag">http://www.seedstudio.com/depot/index.php?main_pag</a>
X10	Pin header	1X10P 2mm female vertical black	PTH	320030009	YXCON	F243-1110A1BSUA1	<a href="http://www.seedstudio.com/depot/index.php?main_pag">http://www.seedstudio.com/depot/index.php?main_pag</a>

optional (female header for Teensy)

X3	Pin header	1x5P 2.54mm female vertical black	PTH	n/a			
X5	Pin header	1x14P 2.54mm female vertical black	PTH	n/a			
X6	Pin header	1x14P 2.54mm female vertical black	PTH	n/a			
X7	Pin header	1x5P 2.54mm female vertical black	PTH	n/a			