

# Electronic Engineering BOM List

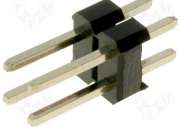


Product Name: ULTiM8x8

Version: V2.0

Issue Date: 12/Jan/2017

Item No	Reference Des	Qty	Part_Description	Part_Value	Part_Package	Manufacturers Name	Manufacturers Part No.	Distributors Name	Distributors Part No.	Image	Notes/Remark
1	U01 ~ U64	64	5050 SMD RGB LED with built-in controller	APA102	5050	Shiji Lighting	APA102C	Aliexpress	APA102C		
2	C1 , C3	2	CAP CER 0.1UF 25V 10% X7R 0805	100nF, 25V	Surface Mount, MLCC (c0805)	Kemet	C0805C104K3RACTU	Digikey	399-1168-1-ND		<a href="http://www.digikey.com/product-detail/en/C0805C104K3RACTU/399-1168-1-ND/411443">http://www.digikey.com/product-detail/en/C0805C104K3RACTU/399-1168-1-ND/411443</a>
3	C2, C4	2	CAP TANT 47UF 10V 10% 1210	47uF, 10V	Surface Mount 1210 (3528 Metric)	AVX Corporation	TAJB476K010RNJ	Digikey	478-1693-1-ND		<a href="http://www.digikey.com/product-detail/en/avx-corporation/TAJB476K010RNJ/478-1693-1-ND/564725">http://www.digikey.com/product-detail/en/avx-corporation/TAJB476K010RNJ/478-1693-1-ND/564725</a>

## DO NOT POPULATE (KIT OF PARTS)

4	P1, P2, P5, P6	2	CONN HEADER 2x2 POS 0.100"	Input1, Input2, Output1, Output2	Male Pin, Header, Unshrouded, Break-away, 2x2 pin	Amphenol FCI	67997-404HLF	Digikey	609-3242-ND		<a href="http://www.digikey.com/product-detail/en/amphenol-fci/67997-404HLF/609-3242-ND/1878458">http://www.digikey.com/product-detail/en/amphenol-fci/67997-404HLF/609-3242-ND/1878458</a>
5	--	2	CONN HEADER FEMALE 4PS .1" DL TIN	--	CONN HEADER FEMALE 4PS .1" DL TIN	Sullins Connector Solutions	PPTC022LFBN-RC	Digikey	S7070-ND		<a href="http://www.digikey.com/product-detail/en/sullins-connector-solutions/PPTC022LFBN-RC/S7070-ND/810209">http://www.digikey.com/product-detail/en/sullins-connector-solutions/PPTC022LFBN-RC/S7070-ND/810209</a>
6	P3, P4, P7 ~ P12	8	Metal Stand Off, M3 x 10mm, FULLY threaded	5V, GND, CI_A, DI_A, CO_H, DO_H	Metal Stand Off, M3 x 10mm, FULLY threaded	--	--	--	--		
7	--	16	Screw, M3 x 5mm long, Allen Head	--	Screw, M3 x 5mm long, Allen Head	--	--	--	--	