

Bill Of Materials for Grid_PB16_Rev2

Design Title Grid_PB16_Rev2
Author
Document Number
Revision
Assembly Variant P16
Design Created Wednesday, May 29, 2019
Design Last Modified Tuesday, July 16, 2019
Total Parts In Design 205

57 Capacitors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Unit Cost</u>
47	C1,C4-C10,C12,C14,C18-C53,C101	100n		\$0.00260
2	C2-C3	26p		
2	C11,C13	10u		\$0.00860
3	C15,C102-C103	1u		\$0.01080
2	C16-C17	18p		\$0.00420
1	C100	4.7n		\$0.00390
Sub-totals:				\$0.18410

26 Resistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Unit Cost</u>
20	R1-R2,R5,R7-R22,R101	10k		\$0.00140
3	R3-R4,R6	1k		\$0.00110
1	R100	1M		\$0.00090
2	R102-R103	5k1		\$0.00130
Sub-totals:				\$0.03480

8 Integrated Circuits

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Unit Cost</u>
1	U1	AT SAM D5X/E5X (100PIN)	ATSAMD51N19	\$4.55100
1	U2	74HC165		\$0.06780
1	U3	U FLASH IS25LP016D	IS25LP016D-JNLE-TR	\$0.17180
2	U4-U5	4051	74HC4051D	\$0.07800
1	U100	D ESD 4CH	SESRV05-4	\$0.03620
2	U101-U102	NCV8161BSN330T1G	NCV8161BSN330T1G	\$0.02620
Sub-totals:				\$5.03520

0 Transistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Unit Cost</u>
Sub-totals:				\$0.00000

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<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Unit Cost</u>
Sub-totals:				\$0.00000

114 Miscellaneous

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Unit Cost</u>
2	FB1,FB100	600R@100MHz		\$0.00430
1	J1	J 2X5		
8	J5-J12	J 1X8	FFC	\$0.04580
1	J100	J USBTYPEC		\$0.78110
16	LD1-LD16	WS2812C-2020	WS2812C-2020	\$0.10300
4	M1,M14-M15,M18	MECH_B2,2X14_SELFT		
1	M2	MECH_G4_PLASTIC_BOTTOM		
1	M3	MECH_G4_PLASTIC_TOP		
8	M4-M5,M10-M13,M16-M17	MECH_4X10MM_MAGNET_DIA		\$0.16200
4	M6-M9	MECH_10X1MM_RUBBER_PAD		
1	M19	MECH_FRONT_PANEL_P16		

16	M20-M35	MECH_LED_LIGHTPIPE	\$0.05000
16	M36-M51	MECH_POT_CAP	\$0.37100
1	M52	MECH_G4_PCB	\$4.54000
1	SW1	SW_HYP_MAP	<u>1TS003A-2500-3500A-CT</u> \$0.03100
1	TP1	MUX1	
1	TP2	MUX2	
1	TP3	SCL	
1	TP4	SDA	
1	TP5	CLOCK	
1	TP6	DATA	
1	TP7	SHIFT	
2	TP8,TP15	GND	
1	TP11	SYNC1	
1	TP12	SYNC2	
1	TP13	RX	
1	TP14	TX	
1	TP102	D+	
1	TP103	D-	
16	VR1-VR16	POT_TT	\$0.34040
1	X1	12Mhz	<u>3225-12M-SR</u>
1	X2	32.768kHz	\$0.08750
Sub-totals:			\$20.94100

Totals:	\$26.19510
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