

# Bill of Materials

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Source Data From: MAGIC\_MATRIX\_DRV.PrjPcb  
 Project: MAGIC\_MATRIX\_DRV.PrjPcb  
 Variant: None

Creation Date: 2017-11-27 23:49:15  
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Description	Comment	Designator	Footprint	LibRef	Quantity
BUZZER	BUZZER	BUZ1	BUZZER-MULTI	BUZZER	1
Capacitor	22pF	C1, C2	C0603	Cap	2
Capacitor	100nF	C3, C4, C5, C6, C7, C10, C12, C14, C15	C0603	Cap	9
Capacitor	1uF	C13	C0603	Cap	1
Capacitor Polarized	22uF	C8, C9, C11	TANC_A	Cap_Pol	3
Capacitor Polarized	0.22F	C16	GOLDCAP_MULTI	Cap_Pol	1
Crystal	18.432MHz	X1	HC49	Crystal	1
Crystal Watch	32.768 Hz	X2	TC26	Crystal Watch	1
Diode Shottky	SS16	D1, D4	SMA	Diode Shottky	2
Diode Shottky	BAT54C	D2	SOT23	BAT54C	1
Header, 3-Pin	Header 3	CON1, CON3, CON4	MA03-1	Header 3	3
Header, 5-Pin, Dual row	Header 5X2	CON2	MA05-2-KANDA	Header 5X2	1
IC	ATmega1284P-AU	U1	TQFP-44A	ATmega1284P-AU	1
IC	DS1337S+	U2	SO-8	DS1337S+	1
IC	TSOP31236	U3	TSOP31236	TSOP31236	1
IC	LM1117-3V3	U4	SOT-223	LM1117-3V3	1
Inductor	22uH	L1	L1210	Inductor	1
LED	RED	D3	LED0603	LED_RED	1
LED	BLUE	D5	LED0603	LED_BLUE	1
Micro_Switch	Micro_Switch	SW1, SW2, SW3, SW4	Tactswitch	Micro_Switch	4
MODULE	ATNEL-WIFI232-T	U5	ATNEL-WIFI232-T	ATNEL-WIFI232-T	1
N-MOSFET	BSS138	Q1, Q2	SOT23	BSS138(GSD)	2
Photoresistor	16-39k	R14	Photoresistor	Photoresistor	1
PNP	BC807	Q3	SOT23	BC807(BEC)	1
Resistor	10k	R1, R3, R8, R9, R10, R15	R0603	Res	6
Resistor	1k	R2, R11	R0603	Res	2
Resistor	4k7	R4, R5	R0603	Res	2
Resistor	68R	R6	R0603	Res	1
Resistor	180R	R7	R0603	Res	1
Resistor	2K2	R12, R16	R0603	Res	2
Resistor	56k	R13	R0603	Res	1

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Approved	Notes