

Bill of Materials					MATRIX_LED_MCU
Source Data From: <u>MATRIX_DRV_01.2.PrjPcb</u>					
Project: <u>MATRIX_DRV_01.2.PrjPcb</u>					
Variant: <u>None</u>					
Creation Date: <u>2017-01-20</u> 14:57:18					
Print Date: <u>06-Mar-17</u> 4:50:29 PM					
Description	Comment	Designator	Footprint	Quantity	
BUZZER		BUZ1	BUZZER-MULTI	1	
Capacitor	22pF	C1, C2, C15	C0603	3	
Capacitor	100nF	C4, C5, C6, C7, C10, C11, C12, C14, C18, C19, C24	C0603	11	
Capacitor	10nF	C16	C0603	1	
Capacitor	33pF	C17	C0603	1	
Capacitor	1uF	C21	C0603	1	
Capacitor Polarized	22uF	C3, C8, C9, C20, C25	TANC_A	5	
Capacitor Polarized	GOLDCAP	C13	GOLDCAP_MULTI_H2	1	
Capacitor Polarized	10uF	C22	TANC_A	1	
Capacitor Polarized	10uF	C23	TANC_A	1	
Crystal	18.432MHz	X1	HC49	1	
Crystal	32.768 Hz	X2	TC26	1	
Diode Shottky		D3	SOD80C	1	
Header, 3-Pin	Header 3	CN4, CN5	FE03-1	2	
Header, 4-Pin	Header 4	CN3	MA04-1W	1	
Header, 5-Pin, Dual row	ISP KANDA	CN2	MA05-2-KANDA	1	
IC	ATmega328-AU	U3	TOFP-32A	1	
IC	LM1117-3V3	U4	SOT-223	1	
IC	TSOP31236	U6	TSOP31236_H	1	
IC	PCF8583	U8	DIP-8	1	
IC	MSGEQ7	U9	DIP-8	1	
IC	LM358	U10	SO-8	1	
Inductor	22uH	L1	L1210	1	
LED	DEB	D1	LED0603	1	
LED	BLUE	D2	LED0603	1	
Microphone	MIC	MIC1	MIC_9.7mm_THT	1	
Module	ATB-PWR3	U1, U2	ATB-PWR3	2	
Module	ATNEL-WIFI232-T	U5	ATNEL-WIFI232-T	1	
Module	BMP180	U7	BMP180	1	
Photoresistor	16-39k	R28	Photoresistor	1	
PNP	BC807	Q5	SOT23	1	
Resistor	10k	R1, R4, R5, R6, R7, R8, R9, R11, R22, R24, R26, R29	R0603	12	
Resistor	270R	R2, R3	R0603	2	
Resistor	180R	R10	R0603	1	
Resistor	68R	R12	R0603	1	
Resistor	0R	R13, R14	R0603-double	2	
Resistor	0R	R15	R0603	1	
Resistor	2k2	R16, R17, R21, R30	R0603	4	
Resistor	200k	R18	R0603	1	
Resistor	3k6	R19	R0603	1	
Resistor	1k	R20	R0603	1	
Resistor	330k	R23	R0603	1	
Resistor	82k	R25	R0603	1	
Resistor	56k	R27	R0603	1	
SMD_Connector	EDGE_CON_OUT	CN1	edge_con	1	
SMD_Jumper	VCC1	J1	jumpersmd	1	
SMD_Jumper	PWM	J2	jumpersmd	1	
SMD_Jumper	BUSY	J3	jumpersmd	1	
SMD_Jumper	LT	J4	jumpersmd	1	
SMD_Jumper	MOSI	J5	jumpersmd	1	
SMD_Jumper	MISO	J6	jumpersmd	1	
SMD_Jumper	SCK	J7	jumpersmd	1	
SMD_Jumper	GND	J8	jumpersmd	1	
SMD_Jumper	Open	J9	SMD_O	1	
Transistors	BSS138	Q1, Q2, Q3, Q4	SOT23	4	
				92	
Approved		Notes			