

Bill of Materials

MATRIX_LED_MCU

Source Data From:

MATRIX_DRV_01.2.PrjPcb

Project:

MATRIX_DRV_01.2.PrjPcb

Variant:

None

Creation Date:

2017-01-20

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4:54:28 PM

Description	Comment	Designator	Footprint	Quantity
BUZZER	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	BAS85	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	TQFP-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