

PAL-1 RIOT Gadgets BOM

Simple I/O

PART Reference	DESCRIPTION	QUANTITY
R1	1K resistor	1
> D1, D2, D3, D4, D5, D6, D7, D8	5mm red LED	8
D9	1N4148	1
> SW1, SW2, SW3, SW4, SW5, SW6, SW7, SW8	Switch	8
Q1	2N3904	1
SPEAKER	Buzzer	1
J1	2x9 Pin	1
PCB	Simple I/O card	1

LED Matrix

PART Reference	DESCRIPTION	QUANTITY
> C1, C2	0.1uF capacitor	2
> R1, R2	10K resistor	2
> D1, D2	788BS LED Matrix	2
> U1, U2	MAX7219	2
IC_Socket_24	IC socket 24P (narrow)	2
J1	2x9 Pin	1
PCB	LED matrix card	1

Protoboard

PART Reference	DESCRIPTION	QUANTITY
J1	2x9 Pin	1
PCB	Protoboard card	1

Adapter

PART Reference	DESCRIPTION	QUANTITY
J1	2x9 Pin Header (vertical)	1
J2	2x9 Pin Socket (horizontal)	1
PCB	Adapter PCB	1