

Minimal game console based on Arduino

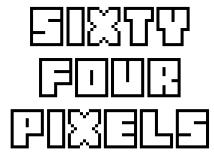
For full build instructions with photos, game information and project files, please check out six4pix.com/game

Your kit includes:

- Printed circuit board
- IC1, IC2 TPIC6B595N power logic shift register
- IC3 ATMEGA328P-PU microcontroller
- R1-R8 220R resistor (red-red-black code). These are soldered to the underside of the board.
- **R9** 1K resistor (brown-black-red code)
- C1, C2 33pF ceramic capacitor (33 code)
- **C3**, **C4**, **C5**, **C6** 100nF cap (104 code)
- **C7** 4.7uF Electrolytic capacitor
- X1 16MHz crystal
- PWR Miniature slide switch
- **LED1** 3MM standard LED. The longer leg is the anode (+ terminal)
- SPK1 5V piezo transducer. The anode (+ terminal) is identified on the label. Remove the label after fitting.
- A,B,C,D,RESET 6mm tactile switch
- **SERIAL** 6 pin male header 0.1" pitch. This is intended to fit a standard FTDI USB-to-TTL serial programming cable (not supplied)
- **DISP1** 8x8 red/green LED matrix. *Pin 1 is indicated with a coloured label. The label goes to the top left, at the position marked on the board with a white triangle. Please ensure correct fitting to the board it is very difficult to remove if soldered incorrectly! Also ensure resistors R1-R8 are soldered first!*
- IC sockets (20 and 28 pin). Line up the notch on the end with the image on the board
- **Battery box** with flying leads. *Trim leads* to required length. Please see web site for advice. 3xAAA batteries (not supplied) are required to operate the game.
- Double sided foam pads to fix battery box to reverse of PCB.
- Tinted acrylic screen filter can be fixed to the front of the LED matrix, with the supplied double-sided tape, to improve display contrast (optional)
- Neoprene Tape can be stuck to underside of board to make it more comfortable to hold (optional)

There are several games pre-loaded on the console... To start a new game, press the RESET button. To change the game, press RESET then hold A and C buttons together for 3 seconds

sixtyfourpixels@gmail.com



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