Bill of materials 6 x6 RGB led matrix.

Basic board

1 PCB available from TINDIE.com
6 latest version WS2803 SOP28 Surface mount LED driver chips from World Semi.
6 current setting resistors at 20ma forward on the LEDs used 1.5K
6 capacitors 10n polyester 0.1” (2.54mm) pitch for decoupling.
2 pin headers 4 way 0.1” (2.54mm) pitch
36 RGB leds 10mm dia

To include the Arduino UNO on the board

1 ATMEGA 328 leaded 28 pin DIP Arduino bootloaded or you can bootload from another Arduino on the 6 pin header provided..
1 DIP socket 28 pins
1 standard pitch 16MHz crystal
2 capacitors 22pf polyester 0.1” pitch for crystal oscillator
3 capacitors 10nf polyester 0.1” pitch for decoupling
2 resistors 10K
1 signal diode 1N4148
14 pin header 0.1” pitch to cut up for Arduino address and databus headers.
1 header 0.25” pitch 3 x 2 pins for Programming MOSI header.
1 USB FTDI lead 6 wire version only.