

64\*16 panel - 8\*2 matrix of 8\*8 LEDS

t=0x0e11f20 [0, 0]

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## links

- <http://www.seeedstudio.com/depot/Ultrathin-16x32-RGB-LED-Matrix-Panel-p-1926.html>
- [https://github.com/Seeed-Studio/Ultrathin\\_LED\\_Matrix](https://github.com/Seeed-Studio/Ultrathin_LED_Matrix)
- <http://blog.vettore.org/building-a-large-led-sign-with-inexpensive-standard-modules-and-arduino/>
- <http://www.instructables.com/id/32x16-LED-Matrix-Panel-and-Arduino/?ALLSTEPS>
- <http://conture.by/post/1100#more-1100>

## pinout

t=0x0e14130

GND	LA	cell=0x0e14130 [0, 1]
GND	LB	cell=0x0e14130 [1, 1]
GND	LC	cell=0x0e14130 [2, 1]
EN	LD	cell=0x0e14130 [3, 1]
R1	G1	cell=0x0e14130 [4, 1]
R2	G2	cell=0x0e14130 [5, 1]
GND	LAT	cell=0x0e14130 [6, 1]
GND	CLK	cell=0x0e14130 [7, 1]

## chips

- 2 \* [74HC245](#) octal bus transceiver
- 2 \* [74HC138](#) 3-to-8 line decoder, inverting
- 8 \* [74HC595](#) 8 bit serial IO shift register
- 1 \* [74HC04](#) hex inverter
- 8 \* MW4953K dual P-channel MOSFET

## power usage

Please supply 5V directly to panel (you might want to route it from there to Arduino) because it draws **2.351 A** with all LEDS lit.