



SparkFun LuMini LED Matrix - 8x8 (64 x APA102-2020)

COM-15047

DESCRIPTION

This is the 8x8 SparkFun LuMini LED Matrix, packed with 64 individually addressable LEDs, each capable of producing 16 million colors, it provides you with a great way to add a square of light to just about anything, or even make a screen of a custom shape! LuMini is a miniaturized version of our Lumenati LED line but instead of utilizing 5mm by 5mm APA102 LEDs (APA102-5050), LuMini uses a 2mm by 2mm package (APA102-2020). This allows for incredibly tight pixel densities, and thus, a screen with less pixelation!

The LuMini LED Matrix is powered and controlled using a few solder pads on the back of each board. These pads include 5V and ground, a set of pads for data in and clock input, and another set for data out and clock output. Since the matrix acts like a string of LEDs, the indexing (or numbering) of the LEDs moves from left to right, bottom to top of the board, on the LED facing side. The last handy feature we've equipped the LuMini LED Matrix with is four detachable mounting points that can be used to secure your ring to a surface/project or be broken off to make more complex designs. However if you want to break off the mounting holes from the board, multiple matrices can be soldered together to form a larger display!

Note: In larger installations you may need to add a decoupling capacitor between power and ground to prevent voltage dips when turning on a whole bunch of LED's simultaneously. We recommend using a **4.7 μ F capacitor** which we sell in strips of 10.

FEATURES

- 8x8 LED Display
- 64x APA102-2020 LEDs
- 4x Detachable Mounting Points
- Optional Capacitor Space
- Daisy-Chainable



