32952-OP

8X8 LED Development Mini Board using the WS2812 RGB LED driver & RGB LEDs in a 5050 case.

● Read the **WS2812** Data Sheet Before attempting use.

● There is **NO** Reverse polarity protection, reversing the power supply polarity will Destroy the ICs.

● 5V Power @ ~60mA/5050 LED Package, Load for a board can exceed 3.5A (all colors on full)

● Internal signal shaping circuit maintains signal integrity from any one LED to the next.
    Waveform distortion will not accumulate, allowing at least 5 meters between LED/Modules.

● Built-in power-on reset and brown-out reset circuit.

● Trichromatic color: Each LED has 256 brightness levels for 16777216 full true color display.

● 1 wire (+ Gnd) Serial interface.

● Scanning frequency of not less than 400Hz/s.

● At a refresh rate of 30 frames/sec, the number of LEDs is not less than 1024 units.

● Loads from First LED in string, then the 2nd, then 3rd etc. until the end of the string.

● Data rate of up to 800Kbps.

● Easy connection: There are two 3-connection sets of holes. You can Solder wires or insert a 3X0.1in. Pitch header into the holes (Recommended). Connect the Din, +5V and Gnd. (-) leads to their respective holes or pins, connect Dout (and Power) lead(s) to the Din & Power on the next board in the string. (The traces on the board have limited current handling, so you may need additional leads from your supply to boards downstream)
    Multiple Module supplies are NOT recommended!
Lastly connect the Din lead and Gnd. to your microcontroller
NOTE: The Gnd. connection must also connect to your Microcontroller
    The Module & Microcontroller must share a common Gnd. (-) for the Data transfer to work

HELPFUL WEBSITES

www.world-semi.com

www.adafruit.com

www.arduino.cc

www.instructables.com