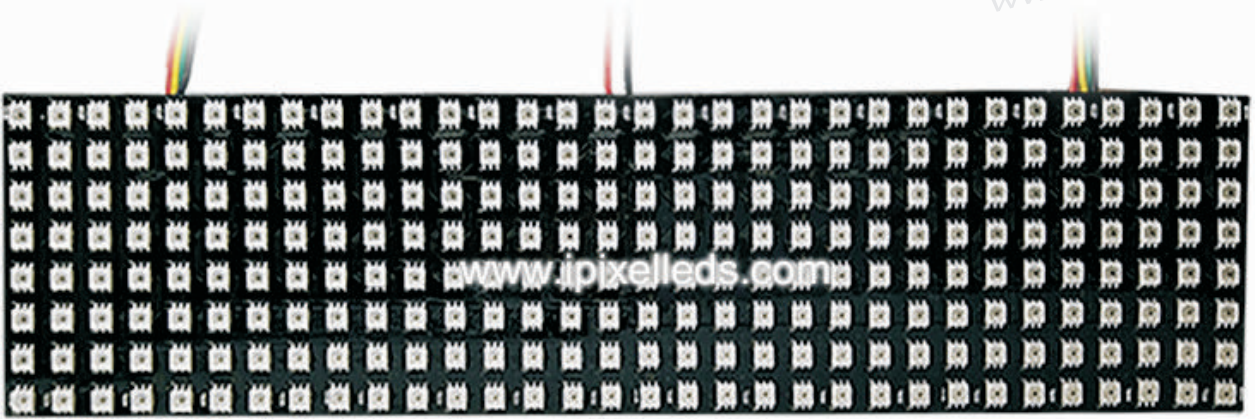




# iPixel LED Light Co. , Ltd

## 8\*32 Flexible LED Panel Addressable SK9822 LED



### Applications:

DIY electronic production

Advertising

Display



### Features and specifications

Individually addressable RGB LEDs (8\*32 LEDs)

24-bit color control (8-bit PWM per channel); 16.8 million colors per pixel

Additional color-independent brightness control (5-bit PWM); 32 brightness steps per pixel

SPI control interface

5 V operating voltage

Each LED Matrix draws approximately 8A at full brightness

320 mm width (32 LEDs) or 80 mm width (8 LEDs). Pitch : P10

Flexible, bendable IP20 rating

Black strip color

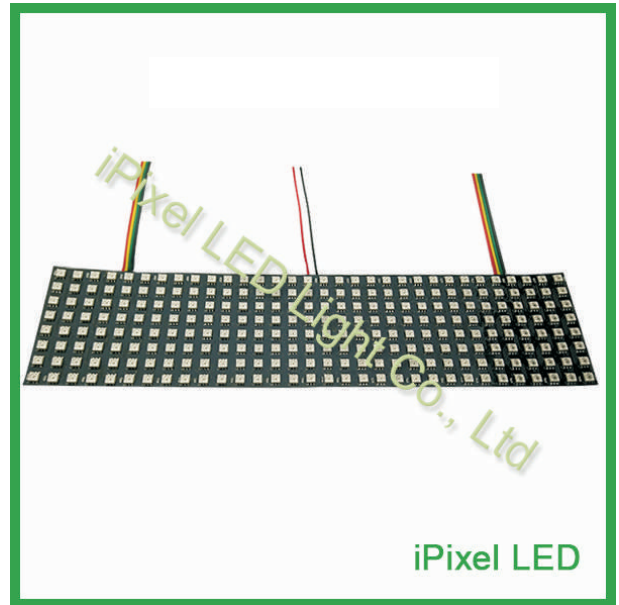
Power/data connectors on both strip ends for easy chaining



## Descriptions:

1. There's a new LED matrix is a rectangle design in iPixel LED!

8\*32 Pixel SK9822 LEDs use a 2-wire SPI, it can push data much faster than with the WS2812B 800 KHz protocol and there's no specific timing required. It's also have much higher PWM refresh rates.



2. This SMD 5050 LEDs is GRB color sequence, not RGB sequence !!! with an embedded microcontroller inside the LED. You can set the color/brightness of each LED to 24-bit color (8 bits each red green and blue). Each LED acts like a shift register, reading incoming color data on the input pins, and then shifting the previous color data out on the output pin. By sending a long string of data, you can control an unlimited LEDs

3. These LEDs have 2 wires (input and output) for clock and one data pin. Because the clock and data is separated, you can use any microcontroller or microprocessor, including Arduino, Raspberry Pi, BeagleBone, Propeller to control it PWM rate. You only have to set the 24-bit color data for each pixel LED once, and then the LED +built-in-chip will handle the PWMing of the red, green and blue. On our WS2812B Matrix, this PWM rate happens 400 Hz, which works well but is noticeably at lower brightnesses and if the strip is moving in any way. have a 20 KHz PWM rate, even if you set any color or animation, there is no pixelation

4. The Matrix is made of flexible PCB material, Non-waterproof, for indoor use only, 2 Ounce copper PCB and black color you can also connect each matrix to together to make them as large as a P10 LED screen, make sure gave them enough Power, each matrix 256 pcs LEDs request about 8A.

5. These matrix comes in 1pcs per bag, on the back side, soldered a pair of 4-pin JST SM connector, it's makes easy to link to next matrix



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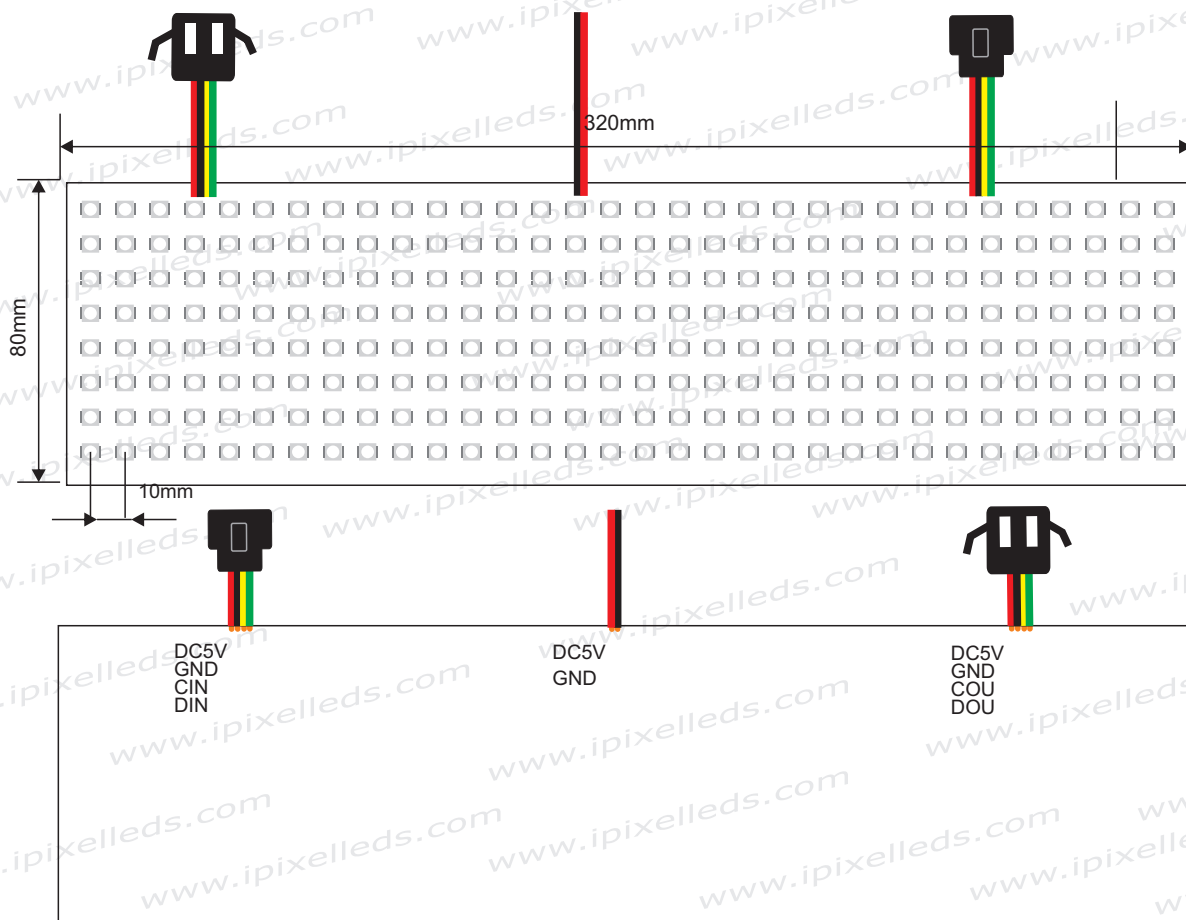
## Technical Parameters:

|                                 |              |
|---------------------------------|--------------|
| Light source                    | SMD 5050 RGB |
| Beam angle                      | 140 deg.     |
| Operating voltage               | DC5V         |
| Consumption watts               | 75±1W        |
| Pixel pitch (mm)                | 10mm         |
| Pixel resolution                | 80*320mm     |
| Entire piece LED quantity       | 256 pcs      |
| Printed circuit board thickness | 0.25mm       |
| Operation Temperature           | -40℃~40℃     |
| Storage Temperature             | -10℃~50℃     |

## Technical Parameter

| Part Number | Emitting<br>Color | Signal | Voltage<br>(V) | IC     | Lumen per LED(mcd)            | IP   |
|-------------|-------------------|--------|----------------|--------|-------------------------------|------|
| S0832SK9822 | Full color        | SPI    | 5              | Sk9822 | R:500-650 G:370-530 B:120-165 | IP20 |

## Outline Dimension: (Unit:mm)



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