

## Details

16\*16 Digital RGB LED Matrix is consist of WS2812B RGB LED. WS2812B is a 5050 components that integrate control circuit and RGB chip in a package.

The LED Matrix are placed 16 Pixels each line, and there are 16 lines on each panel. The space between each pixel is 1cm.

### Feature:

PIN Function:

No.	Symbol	PIN	Function Description
1	+5V	Power	5V power supply
2	DIN	Data Input	Input the control signal
3	GND	Ground	Earthing
4	DOUT	Data Output	Output the control signal, and connect to next panel's DIN

### RGB Parameters

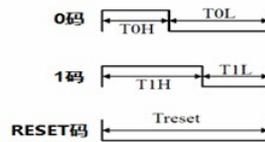
Color	Model	Wavelength (nm)	luminous intensity (mcd)	operating voltage (V)
Blue	13CBAUP	465-467	180-200	3.0-3.4
Green	13CGAUP	522-525	660-720	3.0-3.4
Red	10R1MUX	620-625	390-420	2.0-2.2

### Data Transfer (TH+TL=1.25μs±600ns)

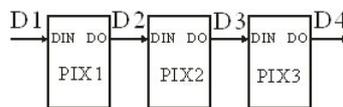
T0H	Code 0, High level	0.4μs	±150ns
T1H	Code 1, High level	0.8 μs	±150ns
T0L	Code 0, Low level	0.85μs	±150ns
T1L	Code 1, Low level	0.45 μs	±150ns
RES	Low level	>50μs	

### Timing Waveforms:

Input Code:



Connection Method:



### Specification

LED Quantity	256
IC Type	WS2812 (IC Built in LED)
Wattage	78.6W/M
Pixel/m	16*16
PCB Width	16*16cm
Length of cable	100mm
Working Voltage	DC 5V
PCB Color	black
Light Color	Multi-Color, digital RGB, Every LED individual Contro