

LED Strip ProPlus RGB SPI Digital One LED Pixel Programmable



Features

- Plus Series using top quality material such as Epistar/San'an chip, Intermatix phosphor powder, ShinEtsu & Dow Corning glue, Heraeus 99.99% pure golden wire, pure copper & fresh plastic stand etc. as standard configuration.
- Pixel controllable per single LED by SPI signal with IC GS8208, by failure of any one LED, the data will be passed to the next LED.
- Support offline color changing models in 6 categories and 32 kinds with built-in programs, when there is no external SPI signal.
- Decorating backlight and indirect lighting for showcase, shelf, cabinet, billboard, signage, hotel, garden, bridge, corridor, ceiling, stair, floor, cove, theatre, lift etc.

Specification

Product No.	Dimension (L*W*H)	IP Rating	Lumen Flux (all) ±10%	Lumen Flux (red) ±10%	Lumen Flux (green) ±10%	Lumen Flux (blue) ±10%
1PCC5050-0301200GLE-RGBSPI	5000*10*2mm [197*0.4*0.08in.]	IP20 [dry]	170lm/M [52lm/ft.]	45lm/M [14lm/ft.]	100lm/M [30lm/ft.]	25lm/M [7.5lm/ft.]

General Specification

Standard Length	Min. Unit & LED QTY	LED Type	LED QTY	PCB Type	Operating Ambient	Warranty	Lifespan
Power: 5M[16.4ft.] (power fed on one side) data: depend on pixel controller being usage	33.3mm [1.31in.] & 1 LED	SMD5050 RGB	30LED/M [9LED/ft.]	3oz white FPC, OSP (Plus)	Ta: -20~45°C	3 years (Plus)	36kh (L70@Tc≤ 65°C, Tc is temperature of LED pin)

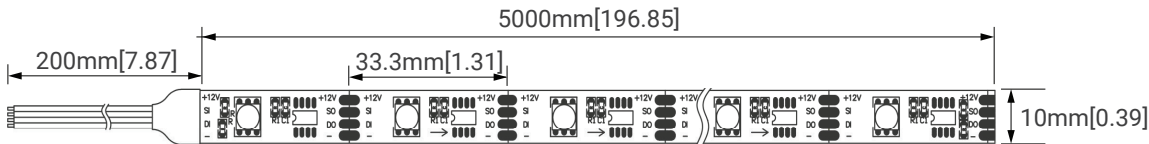
Photoelectric Specification

Power±10%	Input Voltage & Current	LED Current	LED CCT & Wavelength	Beam Angle	Dimming / Toning Method
6W/M [1.83W/ft.] (All colors and single color have the same power)	12VDC & 0.5A/M[0.15A/ft.]	R:15mA, G:15mA, B:15mA	R:620~630nm, G:515~525nm, B:465~475nm	3oz white FPC, OSP (Plus)	PWM (Option 1: product is directly connected to power supply and without controller, it can run following the built-in program in IC by default. Option 2: product is connected to and being controlled by SPI controller or DMX-SPI decoder.)

- 1: Applying with extra heat sink is not necessary with self-cooling capacity.
- 2: 3M 300LSE yellow adhesive tape attached on backside, is standard configuration of Plus Series.
- 3: Transparent reel and silvery ESD bag, are standard configuration of Plus Series.

Dimension Drawing

Front View
Unit: mm[inch]



Side View
Unit: mm[inch]

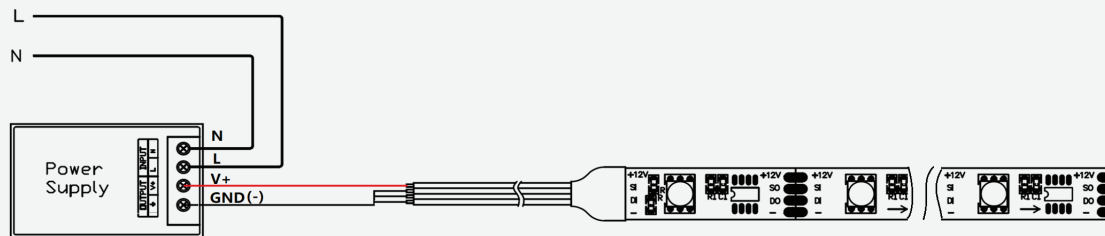


Important notice for wiring: the SPI data signal must be transferred from DI to DO strictly following the arrow printing on FPC, it can't be made by reverse connection, otherwise the strip will be out of control and even damaged.

Connection Diagram

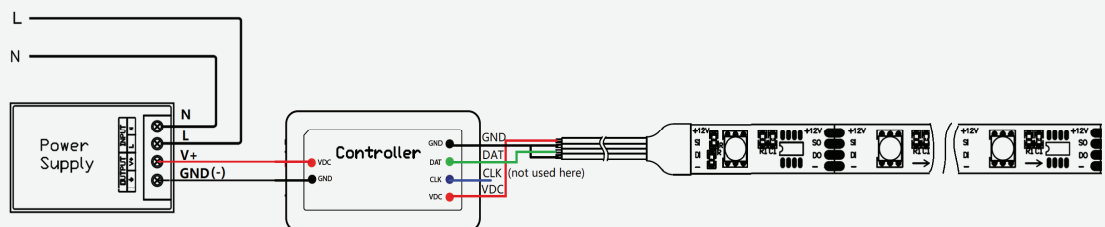
Option 1: product is directly connected to power supply and without controller, it can run following the default built-in program in IC.

- 1) "+12" mark of the strip, is connected to the "V+" mark of power supply.
- 2) "SI", "DI" and "-" mark of the strip, are all connected to the "GND(-)" mark of power supply.



Option 2: product is connected to and being controlled by SPI controller or DMX-SPI decoder.

- 1) "+12" mark of the strip, is connected to the "VDC" mark of SPI controller.
- 2) "SI" and "-" mark of the strip, are all connected to the "GND" mark of SPI controller.
- 3) "DI" of the strip, is connected to the "DAT" mark of SPI controller.
- 4) "VDC" mark of the SPI controller, is connected to the "V+" mark of power supply.
- 5) "GND" mark of the SPI controller, is connected to the "GND(-)" mark of power supply.



**DMX-SPI
Signal Decoder**

