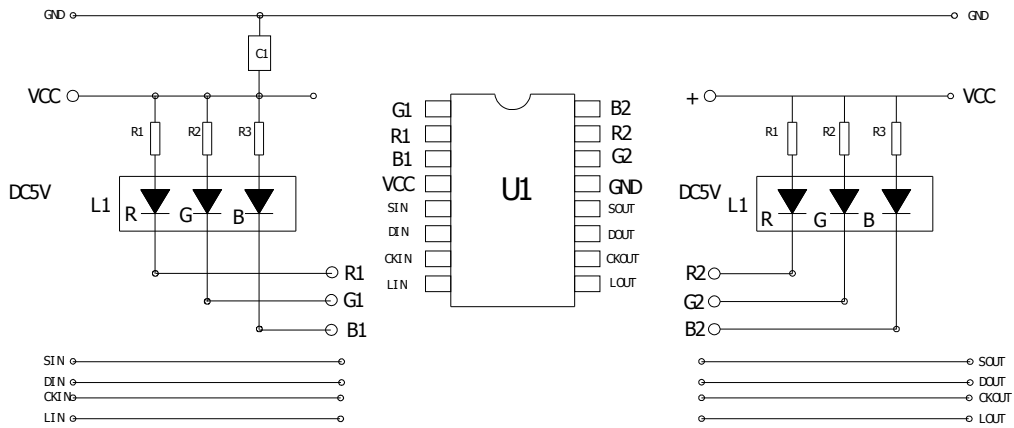


User Manual

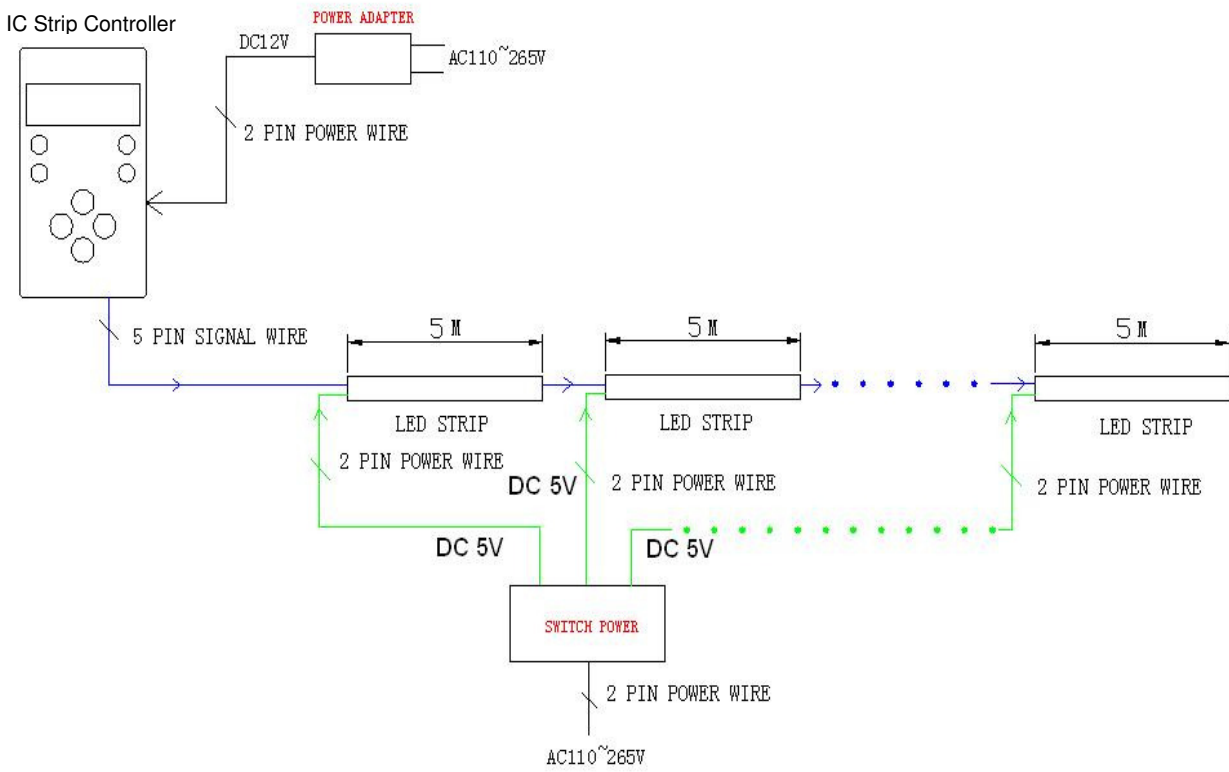
OF-CONTRGBIC



- 1. All dimen
- 2. T_i



Circuit diagram



Installation drawing

Noted:

Max length series connection for each output channel is 15m.



CAUTIONS

Exploitation conditions

1. In order to guarantee that the LED life and the use environment, cannot make any force when the product lighting use to pull the power cables, forbids to collide, in order to avoid damages LED.
2. For can better lighting effect of the product, each 5 meter long strip must connect the main power source.
3. Must guarantee that each power source (GND) must connect.
4. Should not be curving in the diameter 60mm following radian, please do not rebate, in order to avoid damage lamp bead or break.

Storage

1. The Flexible SMD Strip should be stored at stored at 30°C or less and 70%RH or less after being shipped and the storage life limits are 3 months.
2. If the Flexible SMD Strip is stored more then 3 months, they can be stored for a year in a sealed container with a nitrogen atmosphere and moisture absorbent material.
3. Please avoid rapid transitions in ambient temperature, especially, in high humidity environments where condensation can occur.

Static Electricity

1. Static electricity or surge voltage damages the Flexible SMD Strip.
2. It is recommended that a wristband or an anti-electrostatic glove be used when handling the Flexible SMD Strip.
3. All devices, equipment and machinery must be properly grounded.
4. It is recommended that measures be taken against surge voltage to the equipment that mounts the Flexible SMD Strip.

Heat Generation

1. Thermal design of the end product was most importance. Please consider the heat generation of the Flexible SMD Strip when making the system design.
2. The thermal resistance of the circuit board and density of Flexible SMD Strip placement on the board, as well as other components was the important factor affecting the coefficient of temperature increase per input electric power.
3. It must be avoid intense heat generation and operate within the maximum ratings given in the specification.
4. The operating current should be decided after considering the ambient maximum temperature of Flexible SMD Strip.

Others

1. Care must be taken to ensure that the reverse voltage will not exceed the absolute maximum rating when using the Flexible SMD Strip with matrix drive.
2. The Flexible SMD Strip described in this brochure is intended to be used for ordinary electronic equipment (such as office equipment, communications equipment, measurement instruments and household appliances). Consult sales staff in advance for information on the applications in which exceptional quality and reliability are required, particularly when the failure or malfunction of the Flexible SMD Strip may directly jeopardize life or health (such as for airplanes, aerospace, submersible repeaters, nuclear reactor control systems, automobiles, traffic control equipment, life support systems and safety devices).
3. User shall not reverse engineer by disassembling or analysis of the Flexible SMD Strip without having prior written consent from . When defective Flexible SMD Strip is found, the User shall inform directly before disassembling or analysis.



Warning

- Please note the careful operation, in the power source connection's situation, will touch the alternating current supply end possibly to cause your safety.
 - In the actual application, the power source should retain 20% remainders, guaranteed that the sufficiency the voltage lightens LED.
 - Installs as far as possible the product in the appropriate environment.
 - Pays attention to the power cable in the installment process positive and negative extremely, please do not wrong, power source and product voltage to be whether correct, in order to avoid creates the product the damage.
-

Control System

Name : IC Strip Controller

Part No. : OF-CONTRGBIC



Product Information:

- ◆ Working Temperature: -20~60°C
- ◆ Supply Voltage: DC12V
- ◆ External Dimension: L94 x W59 x H25mm
- ◆ Packing Size: L145 x W95 x H50mm
- ◆ Net Weight: 205g
- ◆ Gross Weight: 235g
- ◆ Rated Power: 2.2W
- ◆ Output: two SPI signals

Interface Specification

Power Input Interface:



Adopt conventional DC power Transpose as power input interface.

Load output interface:



Adopt 5-pin Connector pin.

G S D C L

Direction for use

1. Connect the load wire at first, following by the power wire; **Please ensure short circuit can not occur between connecting wire before you turn on the power.**
2. There are eight buttons altogether on controller panel, and every button function as follows:
 - ⏻ ON/OFF button it can open or close led anytime, when led is on the state of closing,the LCD will display **IC NUMBER: *****, *** is the value of current setting.
 - ⏸ Play/pause button, when you want to see the static effecton of led, you may press this button to pause.
 - ⊕ Adding button to add the IC NUMBER, the maximum is 255 (510 groups of RGB)
 - ⊖ Reducing button to reduce the IC NUMBER, the least number is 16 (32 groups of RGB);
 - ▲ Program choosing button up direction, there are 83 programs in all.
 - ▼ Program choosing button, down direction;
 - ◀ Speed-down button, there are 100 steps in all;
 - ▶ Speed-up button.
3. There are six buttons altogether on remote controller panel, and every button function as follows:
 - ON / OFF: you could turn on or off load output at any time;
 - MODE: mode button, you can choose playing or pausing mode, and observe the static results of LED in the state of suspension mode .
 - S +: the button to increase the rate of change;
 - S -: the button to slow down the rate of change, a total of 100 steps;
 - B +: procedures for the selection key and up choice, a total of 83 procedures;
 - B -: procedures for the selection key, down choice.
4. The description of signal output interface: L, K ,D, S is the corresponding signal of HL1606,which is L_I,CK_I,D_I,S_I.
 Program description: (Condition : A1 – Blue LED;A2 – Red LED;A3 – Green LED)
5. Standard color changes as follows:

PROGRAM	Functions
1	All color wave forward direction
2	All color wave backward direction
3	All color draw curtain by waving
4	All color lower curtain by waving
5	Three color wave by wave forward direction
6	Three color wave by wave backward direction
7	Three color draw curtain waving by waving
8	Three color lower curtain waving by waving
9	Many color wave forward direction
10	Many color wave backward direction
11	Many color wave draw curtain
12	Many color wave lower curtain
13	Six color trail forward direction
14	Six color trail backward direction
15	Six color trail draw curtain
16	Six color trail lower curtain
17	Three base color trail forward direction
18	Three base color trail backward direction
19	Three base color trail draw curtain

- 20 Three base color trail lower curtain
- 21 Six color jumpy change
- 22 Three base color jumpy change
- 23 Three mixing color jumpy change
- 24 Six color jumpy change forward direction
- 25 Six color jumpy change backward direction
- 26 Six color jumpy change draw curtain
- 27 Six color jumpy change lower curtain
- 28 Three base color jumpy change forward direction
- 29 Three base color jumpy change backward direction
- 30 Three base color jumpy change draw curtain
- 31 Three base color jumpy change lower curtain
- 32 Six color brush forward direction
- 33 Six color brush backward direction
- 34 Three base color brush forward direction
- 35 Three base color brush backward direction
- 36 Six color brush draw curtain
- 37 Six color brush lower curtain
- 38 Three base color brush draw curtain
- 39 Three base color brush lower curtain
- 40 Change color red-purple-red forward direction
- 41 Change color red-purple-red backward direction
- 42 Change color red-purple-red draw curtain
- 43 Change color red-purple-red lower curtain
- 44 Change color red-yellow-red forward direction
- 45 Change color red-yellow-red backward direction
- 46 Change color red-yellow-red draw curtain
- 47 Change color red-yellow-red lower curtain
- 48 Change color red-green-red forward direction
- 49 Change color red-green-red backward direction
- 50 Change color red-green-red draw curtain
- 51 Change color red-green-red lower curtain
- 52 Change color red-blue-red forward direction
- 53 Change color red-blue-red backward direction
- 54 Change color red-blue-red draw curtain
- 55 Change color red-blue-red lower curtain
- 56 Change color green-cyan-green forward direction
- 57 Change color green-cyan-green backward direction
- 58 Change color green-cyan-green draw curtain
- 59 Change color green-cyan-green lower curtain
- 60 Change color green-blue-green forward direction
- 61 Change color green-blue-green backward direction
- 62 Change color green-blue-green draw curtain
- 63 Change color green-blue-green lower curtain
- 64 Change color red-white-red forward direction
- 65 Change color red-white-red backward direction
- 66 Change color red-white-red draw curtain
- 67 Change color red-white-red lower direction
- 68 Change color green-white-green forward direction
- 69 Change color green-white-green backward direction
- 70 Change color green-white-green draw curtain

71	Change color green-white-green lower direction
72	Change color blue-white-blue forward direction
73	Change color blue-white-blue backward direction
74	Change color blue-white-blue draw curtain
75	Change color blue-white-blue lower curtain
76	Six color fade in and fade out forward direction
77	Six color fade in and fade out backward direction
78	Six color fade in and fade out draw curtain
79	Six color fade in and fade out lower curtain
80	Three base color fade in and fade out forward direction
81	Three base color fade in and fade out backward direction
82	Three base color fade in and fade out draw curtain
83	Three base color fade in and fade out lower curtain
