# RGB LED Controller for DigiRibbon

# SC- WC5-V3/V4/V5

## Features

**V3**: Compatible with LPD6803
**V4**: Compatible with Tm1803
**V5**: Compatible with SM16716
digital RGB LED strips.36 predefined modes, variable strip length (adjustable from 3m to 100m) . 20 levels for speed adjustment , 16 levels for brightness a djustment, power-off recovery function.

LC-0RGB-D5-04

## Technical Parameter

Input voltage: DC 12V
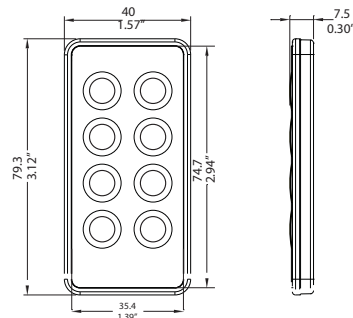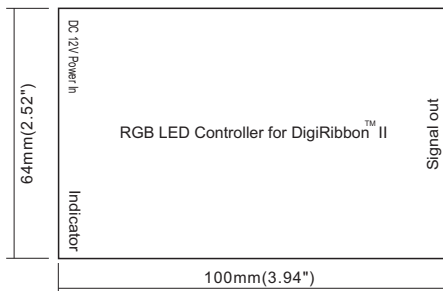Max output power: 100W
Control distance: 30m (without obstacles)
Output channel: one group digital signal

FC  CE  RoHS COMPLIANT  warranty 3 years

## Dimensions   (Unit: mm/inch)

SC-WC5-V3/V4/V5    Weight:114g

DC 12V Power In
64mm(2.52")
Indicator
Signal out
RGB LED Controller for DigiRibbon™ II
100mm(3.94")

LC-0RGB-D5-04    Weight:20g

40
1.57"
7.5
0.30"
79.3
3.12"
74.7
2.94"
35.4
1.39"

## Color Patterns

1. 7 – color flowing forward without grounding
2. Single LED dots running back–and–forth, without grounding
3. Single LED dots running back–and–forth, with grounding
4. 7 – color flowing forward and backward, without grounding
5. 7 – color flowing from the middle to the two ends, and then running in the opposite direction, without grounding
6. 7 – color flowing forward with grounding
7. 7 – color flowing backward with grounding

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8. 7 – color flowing back–and–forth, with grounding

9. 7 – color running from middle to the two ends, and then running in the opposite direction, with grounding

10. 7 – color jump

11. Constant red

12. Constant green

13. Constant blue

14. Constant yellow

15. Constant purple

16. Constant cyan

17. Constant white

18. Six colors in one LED dots running

19. Six colors in two LED dots running

20. RGB cross–fading

21. Two red dots chasing back–and–forth with fading

22. Two green dots chasing back–and–forth with fading

23. Two blue dots chasing back–and–forth with fading

24. Two yellow dots chasing back–and–forth with fading

25. Two purple dots chasing back–and–forth with fading

26. Two cyan dots chasing back–and–forth with fading

27. Two white dots chasing back–and–forth with fading

28. Red color flowing backward with fading

29. Green color flowing backward with fading

30. Blue color flowing backward with fading

31. Yellow color flowing backward with fading

32. Purple color flowing backward with fading

33. Cyan color flowing backward with fading

34. White color flowing backward with fading

35. Six colors six dots chasing back–and–forth with fading

36. Al l patterns alternating

## Operation Description

**1.Function of key board keys**

POWER：Power on/off

PAUSE：Pause the current pattern (you can catch up with the minute changing)

MODE+：next pattern

MODE-：previous pattern

SPEED+：increase speed

SPEED-：decrease speed

BRT+:increase the brightness (modes 1–19 )

BRT-:decrease the brightness (modes 1–19 )

This controller has 36 modes that can be used with any length of ribbon.

**2.How to set the ribbon length:**

1).Press the power key to turn off the strip

2).Press the pause key, the strip will turn red, this indicates that adjustment mode is active.

3.Press the MODE +  to increase the length or MODE -  to reduce the length  (the red light indicates the active length).

4.After you have adjusted to the correct length, press the power button again. The controller is now set to the new length, this data is stored,  even  when  the  power  is  switched  off or disconnected.
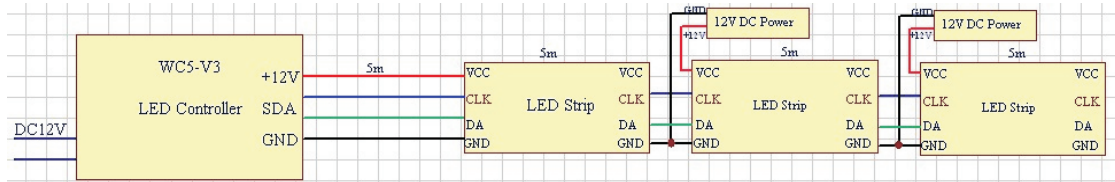


## Cautions

1. SC-WC5-V3 can be only used to control LPD6083 digital LED strips, it is not compatible with  standard RGB Strips.  Don't  connect  it  to  ordinary  strips  as this may damage the controller.

2. SC-WC5-V4 can be only used to control Tm1803 digital LED strips, it is not compatible with  standard RGB Strips.  Don't  connect  it  to  ordinary  strips  as this may damage the controller.

3.SC-WC5-V4 can be only used to control SM16716 digital LED strips, it is not compatible with  standard RGB Strips.  Don't  connect  it  to  ordinary  strips  as this may damage the controller.

4. SC-WC5-V3/V4/V5  has  a  single  wire  for  signal  output ,  make  sure  the wires  are connected correctly to avoid damage to the controller and / or the strip.

5.Use only 12V DC power supply, do NOT use high voltage AC.

6.The  maximum  input  power should be below  100W  to avoid damage to the controller and / or the strip.

7.When installing the controller, first cut off the power of controller, connect well the LED light with controller, then connect  the controller with power supply.