Type: _____

Project: _____

Catalog#: _____

GC-2103DMX-S

DMX512 Decoder

(with Stand-Alone)

Main Features

- Standard DMX512 compliant control interface, enable to set the DMX address freely and show address via digital numeric display.
- Stand-alone mode and DMX512 decoder mode can be freely switched by buttons. In the case of stand-alone mode, built-in programs allows user to control through manual buttons instead of DMX signal.
- Three-channel / Four-channel output selectable.
- Two types available (Constant Voltage, Constant Current), suitable for different LED lamps.
- Works with power repeater to expand output power infinitely

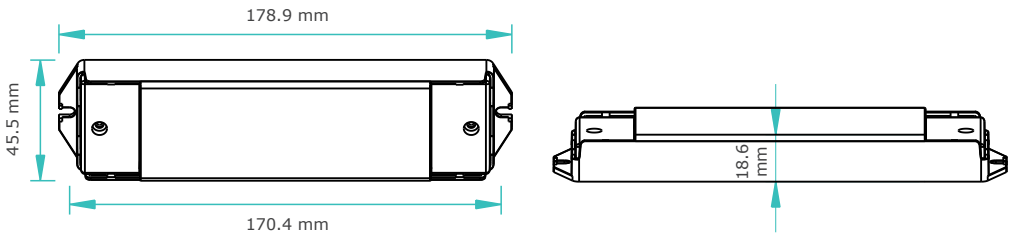
Safety & Warnings

1. The product must be installed and serviced by qualified personnel.
2. IP20. Avoid direct sunlight and rain. When installed outdoors, please ensure it is mounted in a waterproof enclosure.
3. Always be sure to mount this unit in an area with proper ventilation to avoid overheating.
4. Please check that output voltage(s) of any LED power supplies used complies with the working voltage of the product.
5. Never connect any cables while power is on and always ensure correct connections to avoid short circuits before turning on.
6. Please ensure that the cable is secured tightly in the connector.
7. For update information please consult your supplier.

Specification Features

Model	***GC-2103DMX-S***		
Input Voltage	*12-36V DC*	Output Power	*4x(60-180)W*
Output Current	*4x5A*	Remarks	*Constant Voltage*

Product Size



greenimagetech.com
105 8288 N Fraser Way
Burnaby BC, V3N 0E9
T: (604) 207-9879
F: (604) 207-6992
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GC-2103DMX-S
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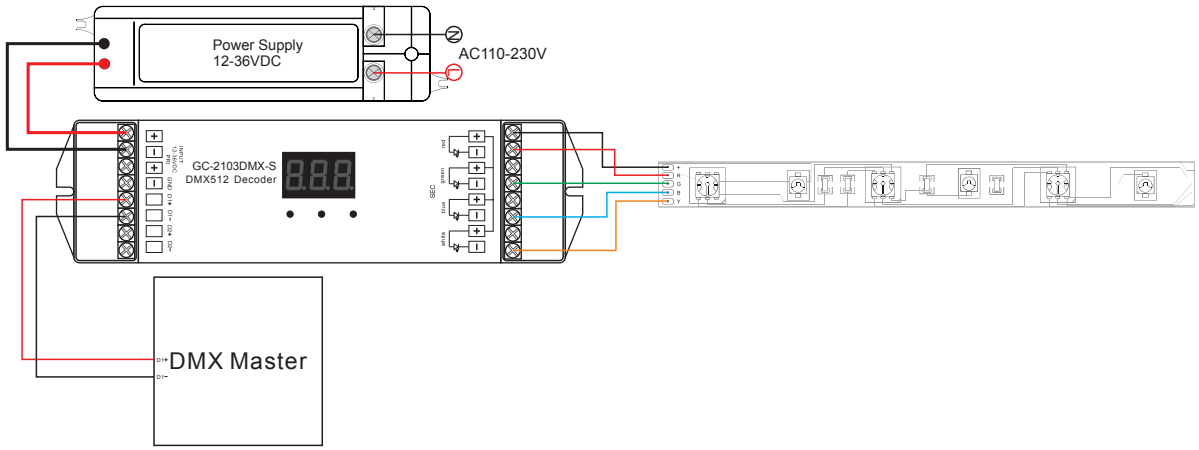
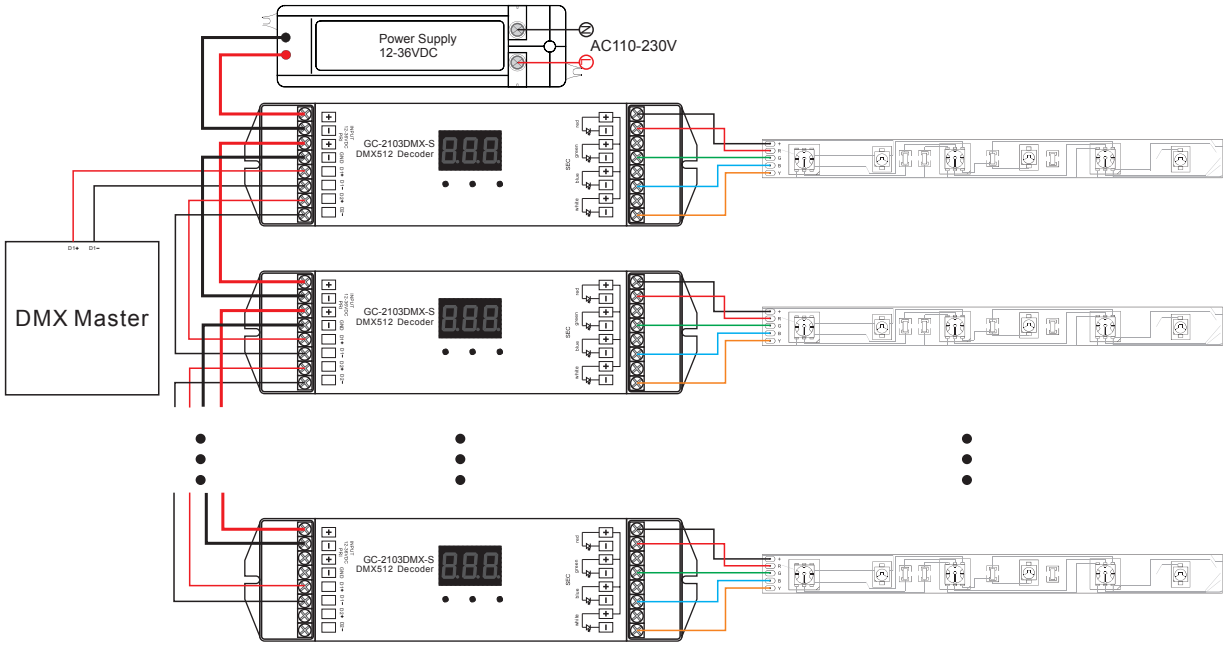
Wiring Diagram

❶ Connection Diagram for Single Unit



❷ Connection Diagram for Multiple Units



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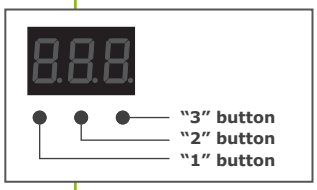
Using Instruction

Operation

Use the following buttons to set desired DMX512 address: "1" sets "hundredths" position, "2" sets "tenths" position, "3" sets "ones". Ensure a stable connection for the DMX512 controller to work properly.

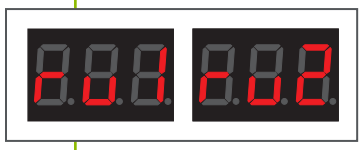


Choose Channel

Press 2nd and 3rd button at the same time for 2 seconds, digital display will flash cH, then press 1st button to choose 1/2/3/4, each corresponds to how many desired channels (3 creates 3 channels, and so on). Press and hold any button for >2 seconds to confirm 1,2,3 or 4 channels. The factory preset default is 4 channel outputs.

Choose Mode

Press 1st and 2nd key for 2 seconds, digital display will flash "r , u".
Press 3rd button to choose between mode 1 or 2. If the board displays *ru1: stand-alone mode*; *ru2: slaver mode*. Press any button for 2 seconds to confirm the selected mode.



Operation under DMX 512 SLAVE mode

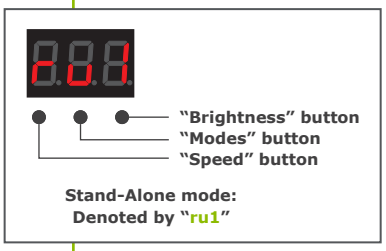
Under mode ru2 will function as standard DMX512 decoder slave, it can connect to a DMX512 MASTER signal with DMX512 signal input port, to be controlled by DMX512 master. Set desired DMX512 address and the digital numeric interface will display the starting address.

For example, if the digital numeric displays 001, it means this DMX slave has the 001,002,003,004 addresses (under situation of 4 CH).

Operation under STAND-ALONE mode

Under stand-alone mode ru1, it can be operated as an independent LED controller that cannot accept DMX input.

In stand-alone mode, it is an individual LED controller with no DMX in or out. The function is as follows: If ru1 is selected, press any button >2 seconds to confirm, the three buttons on board will have new functions like the diagram to the right.



Choose Channel

Hold the "Brightness" and "Mode" button for two seconds, when cH digital display flashes, press "Speed" button to choose '3' or '4', then press any button for 2 seconds to confirm desired channels.

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Using Instruction

1 Speed Button

To change speed of colour changes, cycling from 0 to 9. 0 is the fastest speed, 9 is the slowest speed. To control colour change speeds, dynamic effects must be active (available using "Mode" button).

2 Modes Button

Press "Modes" button to see a total of 9 dynamic effects: effects1-pause / effects2-pause / effects3-pause...etc...

3 Brightness Button

To adjust brightness levels, cycle between 1 to 9: "1" being the dimmest, "8" being the brightest.

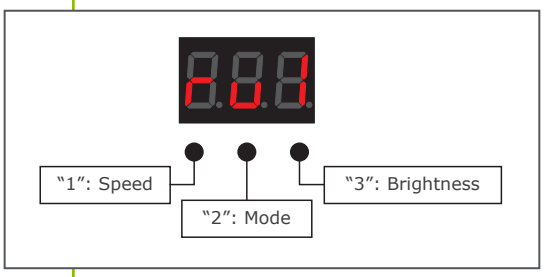
Set DMX address

Press 1st button for 2 seconds, digital display flashes to set the required DMX address, then press any button for >2 seconds to confirm.

Choose PWM frequency

Press and hold 1st and 3rd button for 2 secs, digital display will flash to show P_c. P means PWM frequency. To change, press the 1st button. If display reads "1", it is at 1500Hz, "2" is at 200Hz. C means dimming options. To change, press the 3rd button. If display reads "1", it is using logarithmic dimming, "2" uses linear dimming.

The preset default is PWM frequency 200Hz with linear dimming (2_2).



Warranty Agreement

❶ **We provide lifelong technical assistance with this product:**

- 5-year warranty. Every product has a date printed for warranty expiration (ie. 1125 means year 2011, week 25). The warranty is for free repair or replacement and covers manufacturing faults only.
- For faults beyond the 5-year warranty, we reserve the right to charge for labour and parts.

❷ **Limited Warranty**

- Any defects caused by incorrect or inappropriate operation.
- Any damages caused by unauthorized removal, maintenance, modifying, incorrect connection and replacement of chips.
- Any damages due to transportation, vibration etc. after purchase.
- Any damages caused by earthquake, fire, lightning, pollution and abnormal voltage.
- Any damages caused by negligence, including storing in high temperatures, humidity or proximity to harmful chemicals.
- Product has been updated.

❸ **Repair or replacement as provided under this warranty is the exclusive remedy to the customer.**

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