Pixel-LEDs

New DMX512 V2 addressable LED Strip

Description

Supporting standard DMX512/1990 protocol, DMX address resettable, and signal data in parallel design:
One broken IC will not cause the whole LED strip failure, more stable and suit for large-scale project.   It means:
1 broken ≠ all broken.

Parameter

- Input Voltage: DC12V
- Power consumption: MAX7.2 watts/meter
- IC type: DMX512
- IC Q'ty: 10 pcs/meter
- LED Q'ty: 30pcs/meter
- 10 pixels/meter, 3 LED = 1 pixels
- 30 channels/meter (17m for 1 universe/512)
- LED type: Epistar   SMD5050 RGB
- Grey scale: 256
- FPC width: 12x3mm

Advantage

- Signal data in parallel connection;
- DMX address can be reset
- Length up to 17 meters
- Every '3LED+IC'   cuttable along the solder pad;
- Standard DMX input: A/B/GND/12v OR SPI input: Data/GND/12v
- Support Mardrix and Art net;
- Long distance control
- CE and RoHS approved

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Protection method

IP rating	White PCB	Black PCB (Not available now)
IP40	BW5050RGB30-DMX-V2	BB5050RGB30-DMX-V2
IP65	DW5050RGB30-DMX-V2	DB5050RGB30-DMX-V2
IP67	TW5050RGB30-DMX-V2	TB5050RGB30-DMX-V2
IP68	JW5050RGB30-DMX-v2	JB5050RGB30-DMX-v2

- **IP40: Non waterproof, backing with 3M self-adhesive tape**
- **IP65: Epoxy coating on the front side, backing with 3M self-adhesive tape**
- **IP67: Silicone tube, without the 3M tape**
- **IP68: Silicone tube + glue filled, without 3M tape**

Diagram

This V2 DMX is made up of 2 parts: DMX tracker PCB and DMX strip.

Tracker PCB: To get a standard DMX input (A/B/GND/12V), you have to add the tracker PCB to the input end of DMX strip after address setting. Otherwise, the signal protocol is TTL.

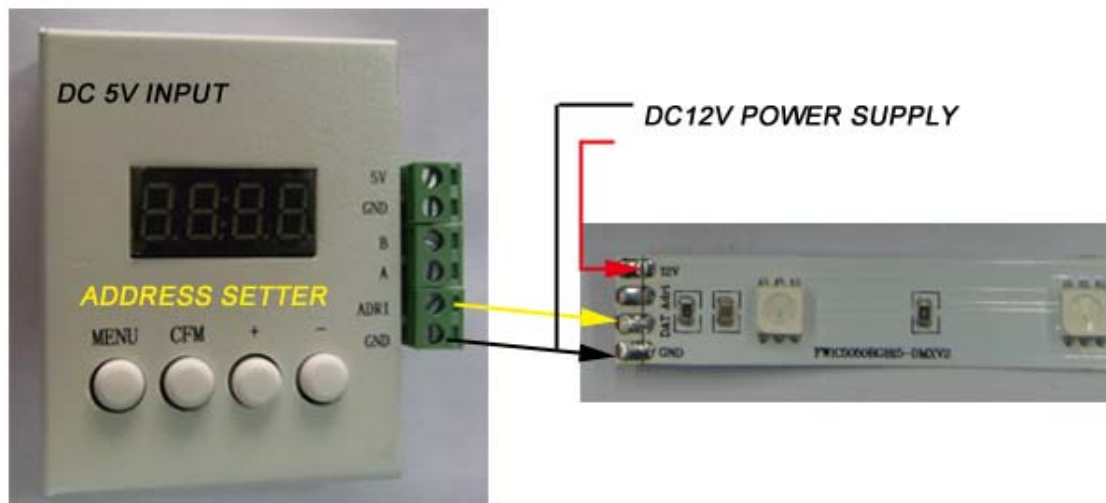**DMX LED strip: It is cuttable and re-addressable at every segment.**

We provide easy JST SM OR XLR connector for connection.

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How to set the DMX address?

Step 1: Connect Adri & GND from setter to DMX LED strip, power up the LED strip and setter.

Step 2: Setting the DMX address at your request;

Step 3: Adding the PCB tracker to DMX LED strip after setting.

Notice:

1. Only one PCB tracker needed for one universe, and one universe (512 channels) can drive MAX 17 meters LED strip;
2. Please use DC12V only;
3. To avoid voltage drop, we suggest to re-feed LED strips if the length over 5 meters.

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