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
Protection method

<table>
<thead>
<tr>
<th>IP rating</th>
<th>White PCB</th>
<th>Black PCB (Not available now)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP40</td>
<td>BW5050RGB30-DMX-V2</td>
<td>BB5050RGB30-DMX-V2</td>
</tr>
<tr>
<td>IP65</td>
<td>DW5050RGB30-DMX-V2</td>
<td>DB5050RGB30-DMX-V2</td>
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<tr>
<td>IP67</td>
<td>TW5050RGB30-DMX-V2</td>
<td>TB5050RGB30-DMX-V2</td>
</tr>
<tr>
<td>IP68</td>
<td>JW5050RGB30-DMX-v2</td>
<td>JB5050RGB30-DMX-v2</td>
</tr>
</tbody>
</table>

- 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.
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.