Summary
Welcome to use PX series DMX512/RDM decoder & driver. PX series adopt the advanced microcomputer control technology and converted the DMX512, RDM/2009 digital signal widely used in international to the PWM control signal. 1~5 channels output for option and each channel able to achieve 256 or 65536 gradations of controlling, and also it can be used as the connector of PC digital light controller and analog light modulator. It is mainly used for the controlling of buildings & lights applied LED.

Product Features
- 5 channels output, the maximum current of 8A /ch for RGBWY decoder, up to 960W
- Can be used as stand alone DMX Master controller
- OLED Screen and touch button, more convenient operation
- 27 sense modes built-in, with speed and brightness adjust function
- 5 kinds of optional: DIM, CT, RGB, RGBW, RGBWY
- 2 kinds of DMX ports: XLR-5, RJ45
- Short-circuit protection, overload protection, over-temperature protection
- Fast self-testing function
- 8 bit / 16 bit resolution optional(master mode support 8bit only)
- Multiple dimming curve: (0.1~9.9), liner, log
- Meets DMX512/1990, RDM /2009 protocol
- Supported RDM parameters:
  - DISC_UNIQUE_BRANCH
  - DISC_MUTE
  - DISC_UN_MUTE
  - DEVICE_INFO
  - SOFTWARE_VERSION_LABEL
  - DMX512/RDM_START_ADDRESS
  - IDENTIFY_DEVICE
  - MANUFACTURER_LABEL
  - SUPPORTED_PARAMETERS
Technical Parameters

Model: PX0508-OLED
Input Signal: DMX512 1990/RDM 2009
Input Voltage: 12~24V
Output Voltage: 12~24V
Output Current: 8A*5CH MAX. 40A
Output Power: (0~96W..192W)*5CH MAX. 960W
Control Mode: DIM/CT/RGB/RGBW/RGBWY
Dimming Curve: 0.1~9.9/Liner/Log
Grey Level: 8Bit (256 levels) / 16Bit (65536 levels)
Protection: Short-Circuit / Over Load / Over Temperature
Dimension: 125*93*36 mm (L * W * H)
Packing Size: 145*104*42 mm (L * W * H)
G.W.: 365 g
Operation Temperature: -20 - 50 C
Relative humidity: 20% - 90% RH

Interface Description

1. RJ45 DMX/RDM Signal input and output
2. OLED Screen
3. XLR-5 DMX/RDM Signal input and output
4. Power input interface
5. Green terminal LED Lamps connection

OLED Screen Description

<table>
<thead>
<tr>
<th>Button Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enter</td>
<td>Enter Button (focus on the option menu pointed by the cursor and enter the state of this option menu.)</td>
</tr>
<tr>
<td>BACK</td>
<td>Back Button, return to the previous menu; exit the state of this option</td>
</tr>
<tr>
<td>Up</td>
<td>Move the cursor up, change the state of the option</td>
</tr>
<tr>
<td>Down</td>
<td>Move the cursor down, change the state of the option</td>
</tr>
</tbody>
</table>
The product restores the default initial page which shows the current parameter information and working status when power on again. Please press "ENTER" to homepage. If there is no operation in 1 minute, the OLED screen will restore the initial page.

**DMX Master**

**Mix color**
RGBWY Brightness setting
R : 0-255 adjustable
G : 0-255 adjustable
B : 0-255 adjustable
W : 0-255 adjustable
Y : 0-255 adjustable

**Default Mode (RGB/RGBW/RGBWY)**

Default Mode
Built-in mode : 1-27 modes for option, all 27 modes

**Bright**
Press "up" or "down" key
0-255 adjustable

**Speed**
Press "up" or "down" key
1-100 adjustable

**Default Mode (CT)**

CT Brightness setting
Press "up" or "down" key
Warm : 0-255 adjustable
Cool : 0-255 adjustable

**Default Mode (DIM)**

DIM Brightness setting
Press "up" or "down" key
Dim : 0-255 adjustable
DMX Decoder

DMX Address Setting
Press "up" or "down" key to set DMX Address
Address: 1-511 adjustable

Dimming Curve Setting
Press "up" or "down" key to set dimming curve
Curve: 0.1-9.9
Linear
Log

Resolution Setting
Press "up" or "down" key to set resolution
Resolution: 8Bit
16Bit

Sys Setting

Output Setting
Press "up" or "down" key to set output channel
CH: DM
CT
RGB
RGBW
RGBWY

Screen: OFF
Lock: OFF
Buzzer: OFF

DMX/RDM Signal
12-24V
POWER SUPPLY

LED

Wiring Diagram
Connecting LED lights:

DMX/RDM Signal
12-24V
POWER SUPPLY

LED

DMX/RDM Signal
12-24V
POWER SUPPLY

LED

Sys Status

OTP/OCSP/SCP Status
When you use DMX decoders after the wiring completed, you can check the short circuit, over current, over load problems in this page once the fault occurs and the "OK" will switch to "Warning" on the screen.

Factory Reset

Self-testing

Quick self-testing
Press "BACK" for 3s on any page

Restore To Factory Setting?
Yes [Enter] No [Back]

Press [BACK] to exit
DMX DECODER&MASTER

Dimming Mode

Single color

Color temperature

CT Mode

RGB Mode

RGB

RGBW Mode

RGBW

RGBWY Mode

RGBWY

DMX DECODER&MASTER

PX0508-OLED

PX0508-OLED is equipped with 2 types DMX terminals for users' selection. The following diagram takes RJ45 as an example, same connecting method for XLR-5.

An amplifier is needed when more than 32 decoders are connected, signal amplification should not be more than 5 times continuously.

If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor at the end of each line.
The connection diagram of 2 kinds of DMX/RDM terminals:

RJ45 Connected in parallel

XLR-5 Connected in parallel

Address setting table

<table>
<thead>
<tr>
<th>Mode</th>
<th>DIM</th>
<th>CT</th>
<th>RGB</th>
<th>RGBW</th>
<th>RGBY</th>
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</thead>
<tbody>
<tr>
<td>Address Quantity</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Resolution</td>
<td>8bit</td>
<td>8bit</td>
<td>8bit</td>
<td>8bit</td>
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<tr>
<td>Channel</td>
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<th>RGBW</th>
<th>RGBY</th>
</tr>
</thead>
<tbody>
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<td>8</td>
<td>10</td>
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<td>Channel</td>
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