EuControls
COLORS AND LIGHTS UNDER YOUR CONTROL

XM3-10300
DMX and 0-10V Dimming Decoder/Driver
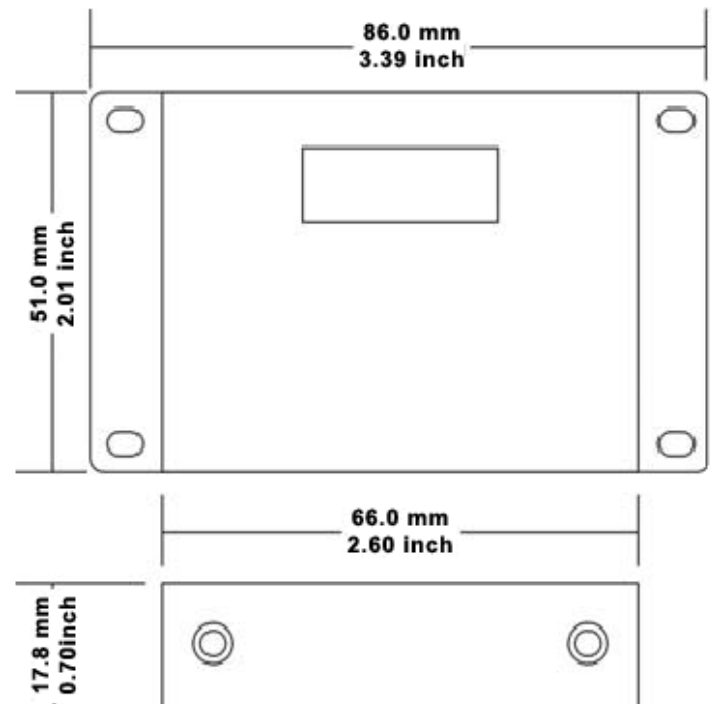
Product Features

- Can be used for converting DMX512 Signal to analog signal.
- Meets DMX512(1990) International Standard.
- Input voltage, 12-24VDC.
- Single channel output, 3A MAX.
- 0-10V analog dimming with DMX signal input.
- Set DMX address through DIP Switches.
- Works with DMX or 0-10V analog signals.
- Automatically sets DMX addresses.
- ETL certified to be compliant to widely accepted product safety standards.

RECOGNIZED COMPONENT
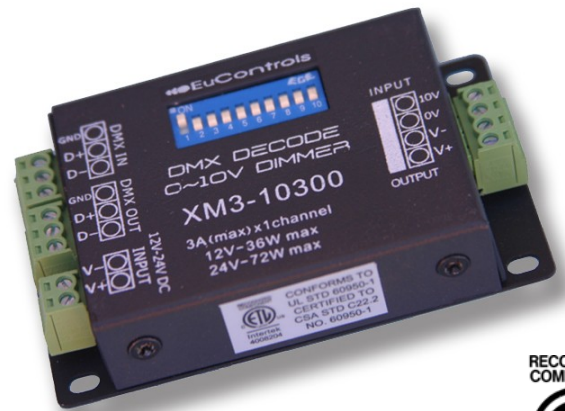
Product Specifications

- Input Voltage   12-24VDC
- Max. Output Power   36W (12V), 72W (24V)
- Output Channel   1 port
- Transmission Interface DMX512 (1990)
- Output Voltage   0-12/24V
- Max. Output Current   3A
- No-load Power Loss   < 1W
- Operation Temperature -20 ~ 70℃
- Dimensions   (L)86 x (W)51 x (H)18 (mm)
                                     3.39 x 2.01 x 0.7 (inch)
- Weight   110g

Dimensions

86.0 mm
3.39 inch

51.0 mm
2.01 inch

66.0 mm
2.60 inch

17.8 mm
0.70 inch

Specifications subject to change without notice

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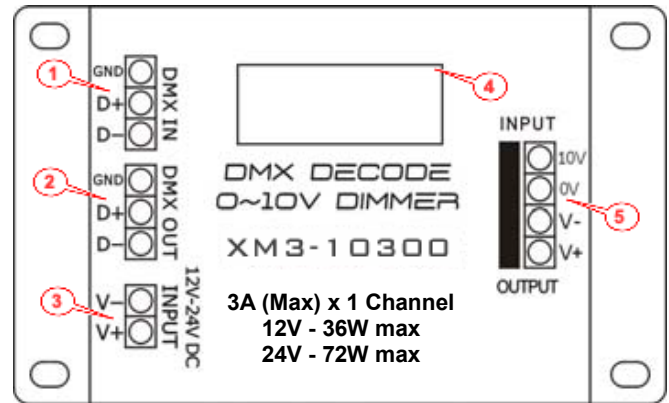
XM3-10300
DMX and 0-10V Dimming Decoder/Driver

Operation Instructions

Back Panel

① DMX512 signal input connector.
② DMX512 signal output connector.
③ Power input port.
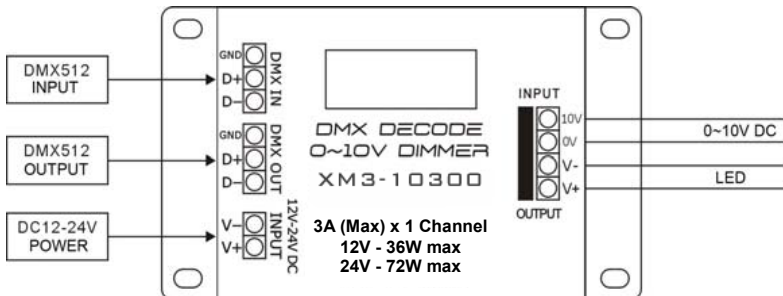④ Address setting DIP switch.
⑤ Dimming input and driver output port.

Output Ports

DMX512 signal connector:

Typical Applications

3A (Max) x 1 Channel
12V - 36W max
24V - 72W max

- **DMX Address setting switch port**: Please see "DMX Series Address Code Table".
- **Power input port**: DC 12-24V input supplies power for the decoder and the connected lights.
- **Dimming input and driver output port**:
  0V/10V interface connects to 0-10V analog voltage.
  A V+ port and a V– output port can be connected to single-color modules
  Automatically adjusts output current to module load requirements, 3A MAX.

- **DMX Series Address Code Table:**

Zone	DIP Switch Settings										Comment
	1	2	3	4	5	6	7	8	9	10	
1	1	0	0	0	0	0	0	0	0	0	Binary 000000001 = address "1"
2	1	0	1	0	0	0	0	0	0	0	Binary 000000101 = address "5"
3	1	0	0	1	0	0	0	0	0	1	Binary 000001001 = address "9"
											Last zone-termination (DIP 10) = "ON"

XM3-10300 INSTRUCTIONS

Connection notes for DMX512 application:
1. Review application and networking diagrams and connect accordingly.
2. A three core shielded wire is recommended for connections.
3. Be aware that the DMX signal has positive and negative polarities.
4. Correct connection of the "+" positive, "-" negative, and "GND" ground wires are critical to ensure a successful connection.

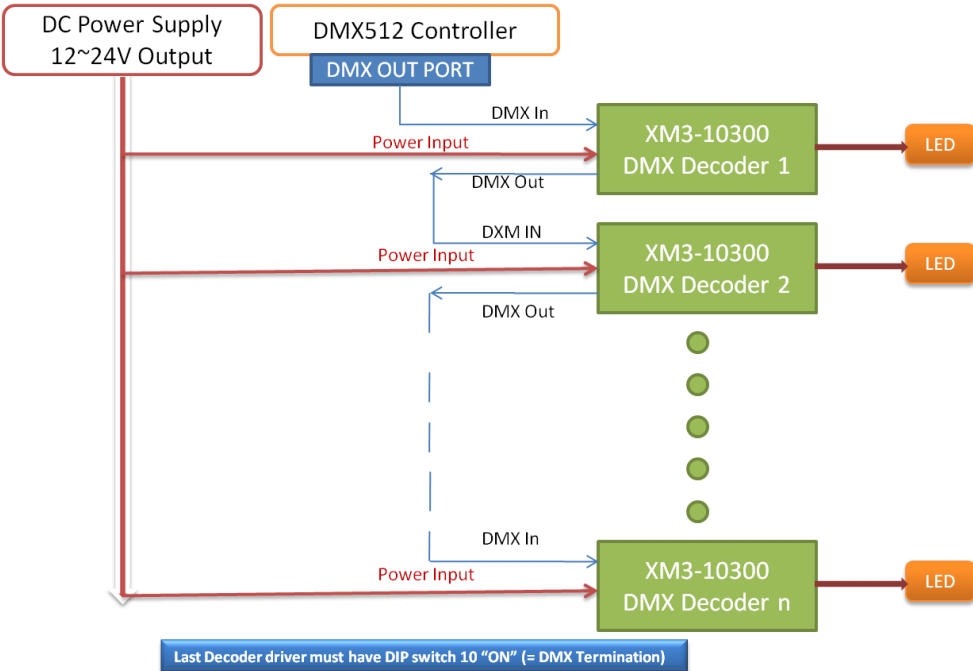**Connection notes for 0-10V dimmer application:**
1. DMX512 signal will automatically override the 0-10V analog signal
2. Do not mix or combine DMX and analog dimmers.

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XM3-10300

DMX and 0-10V Dimming Decoder/Driver

Installation Instructions

Connection Instruction of DMX512 Networking:

DC Power Supply 12~24V Output

DMX512 Controller
DMX OUT PORT

DMX In
Power Input
XM3-10300 DMX Decoder 1 — LED
DMX Out

DXM IN
Power Input
XM3-10300 DMX Decoder 2 — LED
DMX Out

DMX In
Power Input
XM3-10300 DMX Decoder n — LED

Last Decoder driver must have DIP switch 10 "ON" (= DMX Termination)

Notes:
1. n is the maximum number of available addresses per output.
2. All above parameters are dependent on controller used.

Connection Instruction of 0-10V dimmer Networking:

DC Power

0-10V Analog Signal Dimmer

Output Ports of Controller

Port1
XM3-10300 DMX512 Decoder 1 — LED Lights
XM3-10300 DMX512 Decoder 2 — LED Lights
XM3-10300 DMX512 Decoder n — LED Lights

Port2
XM3-10300 DMX512 Decoder 1 — LED Lights
XM3-10300 DMX512 Decoder 2 — LED Lights
XM3-10300 DMX512 Decoder n — LED Lights

Port m
XM3-10300 DMX512 Decoder 1 — LED Lights
XM3-10300 DMX512 Decoder 2 — LED Lights
XM3-10300 DMX512 Decoder n — LED Lights

Notes:
1. m is the number of available DMX512 Controller Outputs.
2. n is the maximum number of available addresses per output.
All above parameters are dependent on controller used.

Specifications subject to change without notice