EuControls
COLORS AND LIGHTS UNDER YOUR CONTROL

DMX to 0-10V Converter

XV3-40002

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DMX to 0-10V Converter

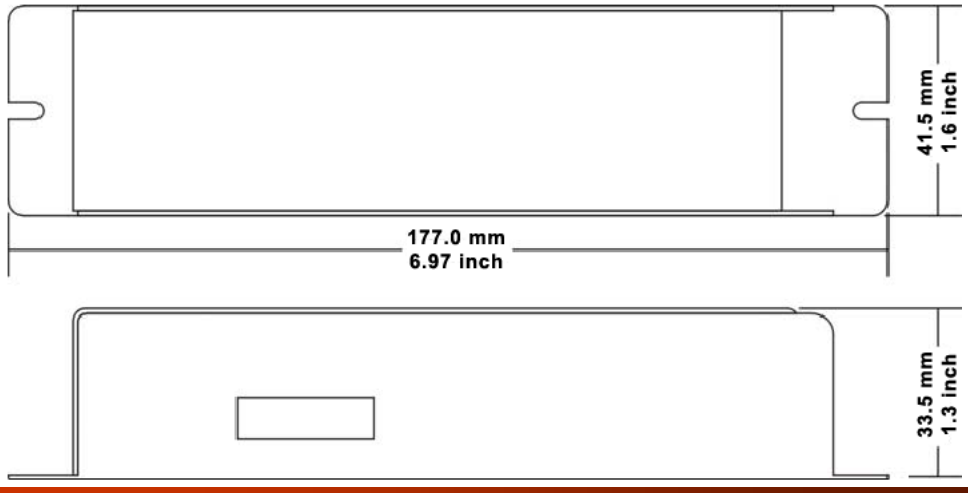
Product Features

- Meets DMX512(1990) International Standard.
- 0-10V or 1-10V analog dimming signal output.
- 4-channel output, 20mA MAX / channel.
- Controls lights with 1-4 base colors.
- Set DMX address through DIP Switches.

Product Specifications

Channels	1-4
Input Signal	DMX-512/1990 digital signal
Output Signal	0-10V analog voltage output, maximum 20mA each channel
Input Voltage	12 to 24VDC
Power Consumption w/o Load	< 1W
Output Power (Pout)	<280W
Operating Temperature	0-70℃
Product Dimension	(L)177 x (W)41.5 x (H)33.5 (mm) 6.97 x 1.63 x 1.32 (inch)
Net Weight	243grams
Gross Weight	255grams

Dimensions



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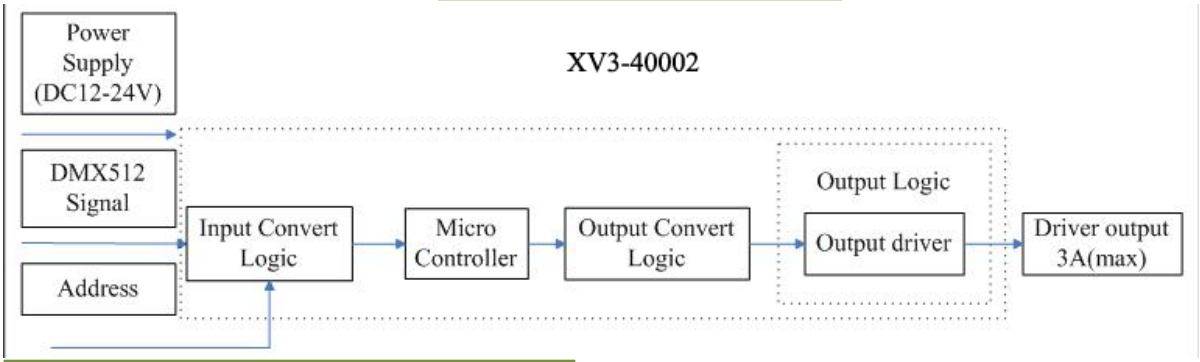
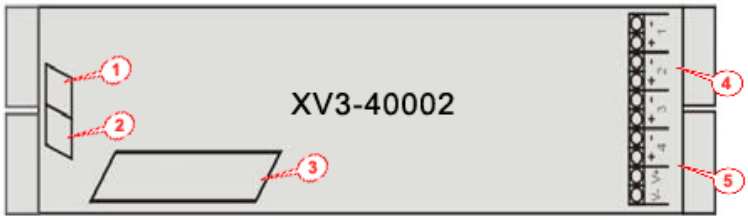
Block Diagram



Appearance

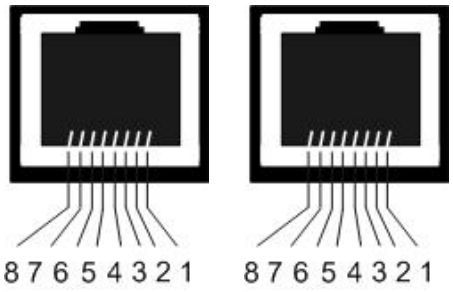


① DMX signal input port (RJ45).
② DMX signal output port (RJ45).
③ DMX Address setting switch port.
④ Driver output port, 4-Channels.
⑤ Input power port.

Ports

- **DMX Signal Ports:**

  1: DATA+.
  2: DATA-.
  3-6: NC.
  7-8: GND



- **DMX Address setting switch port**: Please see “DMX Series Address Code Table”.
- **Input Power port**: DC 12-24V input.
- **Dimming Output ports**: 4-channel independent dimming outputs. The outputs are active 0-10V analog dimming signals.

- **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 000000100 = address 5"
3	1	0	0	1	0	0	0	0	0	1	binary 000000111 = address 9"
											Last zone-termination (DIP 10)= "on"

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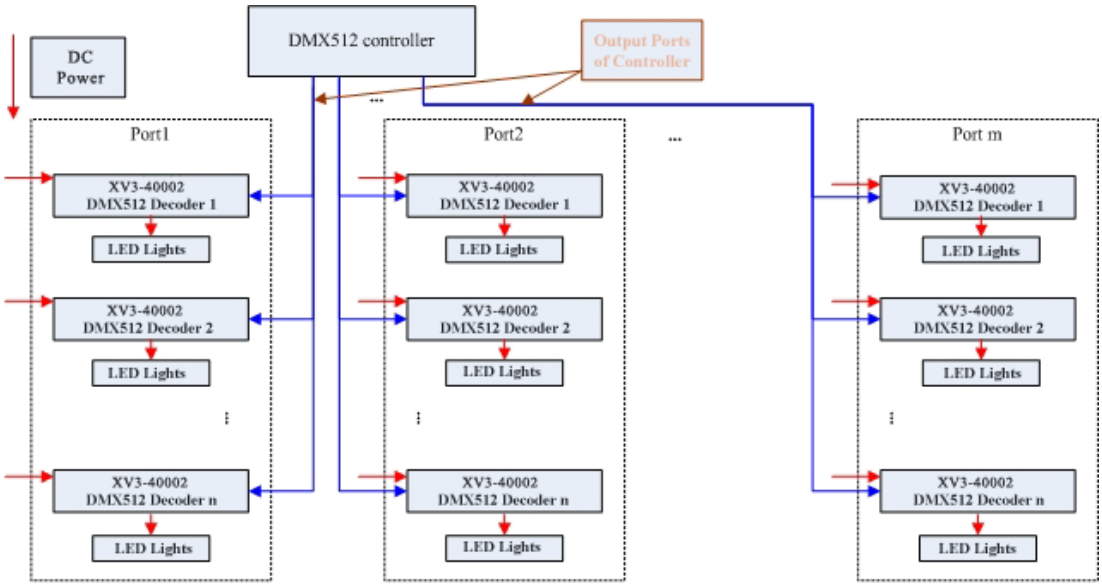
Usage

XV3-40002 Decoding driver is controlled by a DMX-512 digital signal. The DMX input port is connected to a DMX-512 controller. The power input port is connect to 12-24VDC power supply and its power output ports are connected to 0-10V or 1-10V LED dimmers. (Using EC-DMX512 and LED lights as examples).

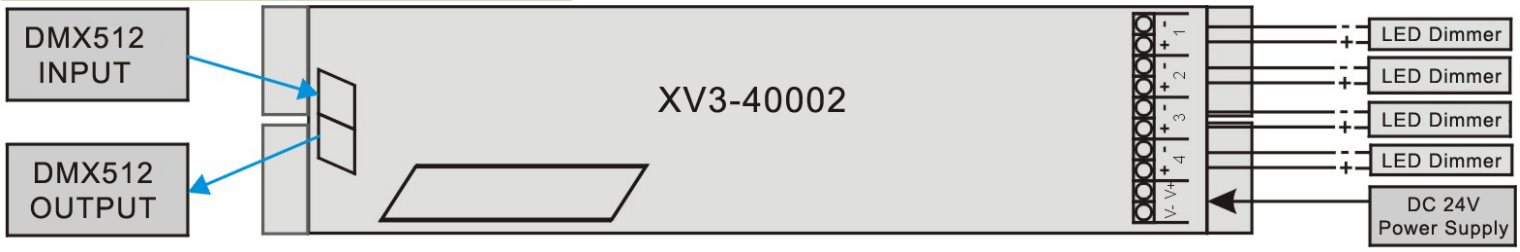
Connection Example:



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.

Typical Applications

Circuit Diagram



Connection Notes of DMX-512 Signal:

- The DMX cable is a CAT 5 networking cable. The DMX signal has "+" and "-" signals. Correct connection of the "+" wire, "-" wire and “ground” wire from a DMX512 controller to the corresponding input ports is critical for proper operation.
- DMX signal terminator must be used for the last device on a controller port. (DIP switch position 10 will provide this termination if placed in the “on” position).