EuControls
COLORS AND LIGHTS UNDER YOUR CONTROL

XV3-40002
DMX to 1-10V Converter

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XV3-40002

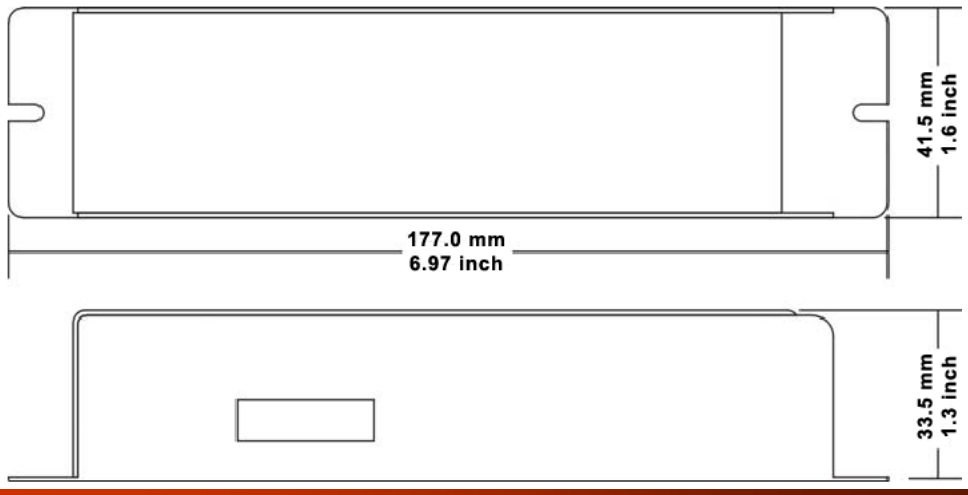
Product Features

- 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	1-10V analog voltage output, maximum 20mA each channel, @sink 0-10V analog voltage output, maximum 10mA each channel, @source
Input Voltage	12 to 24VDC
Power Consumption w/o Load	< 1W
Operating Temperature	0-70℃
Product Dimensions	(L)177 x (W)41.5 x (H)33.5 (mm) 6.97 x 1.63 x 1.32 (inch)
Weight	243grams

Dimensions



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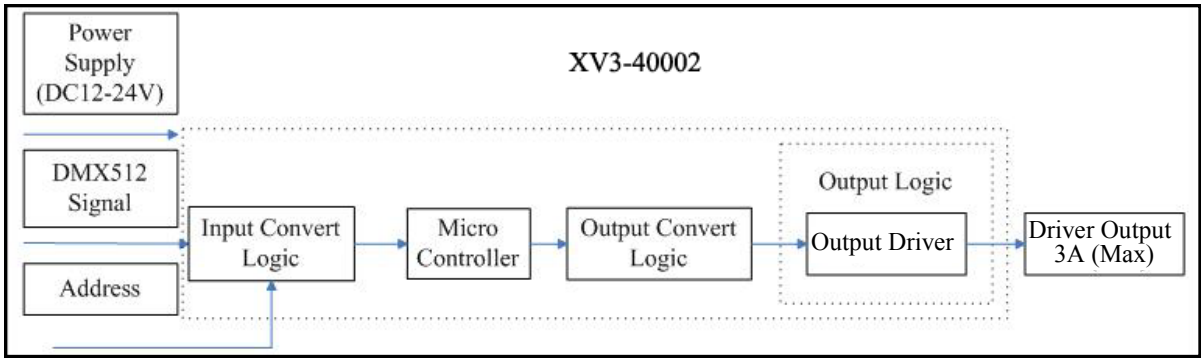
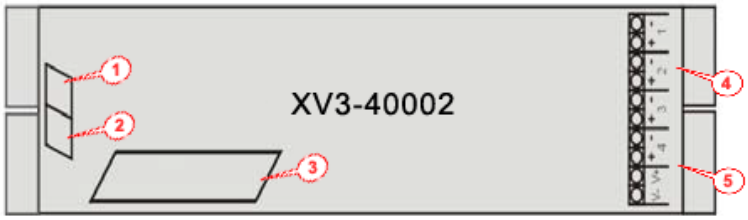
Block Diagram

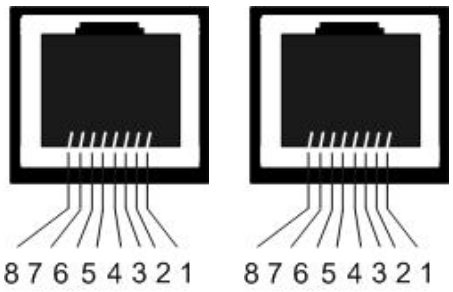


Appearance



① DMX signal input connector (RJ45).
② DMX signal output connector (RJ45).
③ DMX Address setting DIP switches.
④ Driver output port, 4 Channels.
⑤ Converter power input.

Ports



DMX Addr = CH 1
DMX Addr + 1 = CH 2
DMX Addr + 2 = CH 3
DMX Addr + 3 = CH 4

- **DMX Signal Ports:**

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

- **DMX Address setting DIP switch**: Please see “DMX Series Address Code Table” below.
- **Input Power port**: 12-24VDC.
- **Dimming Output ports**: 4-channel independent dimming outputs. The outputs are sink (1-10V)/source(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 000000101 = address “5”
3	1	0	0	1	0	0	0	0	0	1	Binary 000001001 = address “9”
											Last zone-termination (DIP 10) = “ON”

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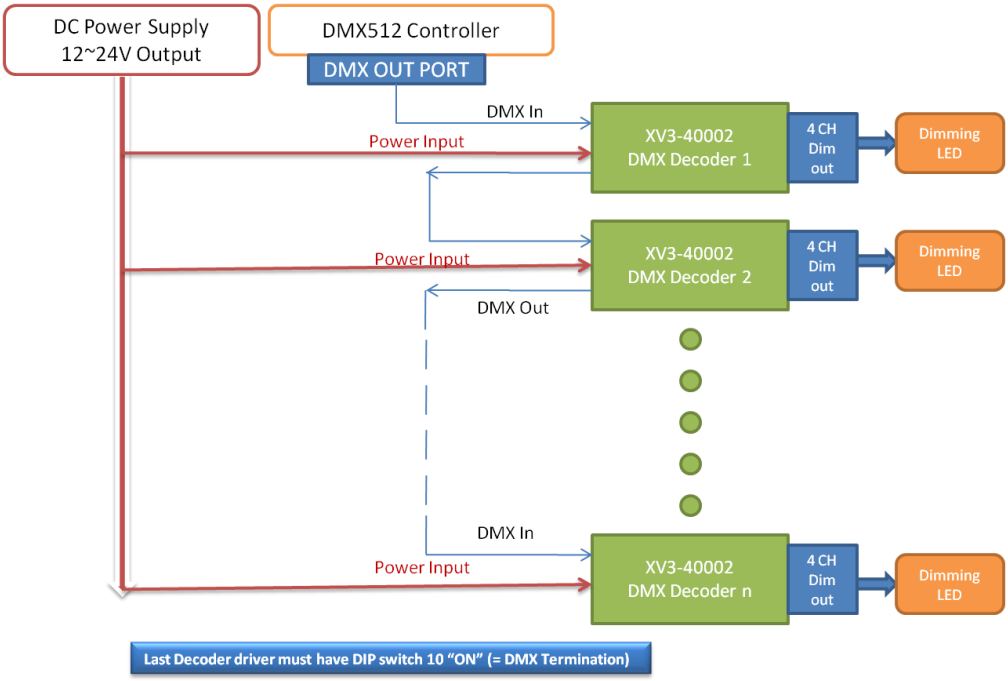
Usage

The XV3-40002 DMX to 1-10V converter is controlled by a DMX512 digital signal. The DMX input port is connected to a DMX512 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 dimmable drivers. (Using DMX512 and LED lights as examples).

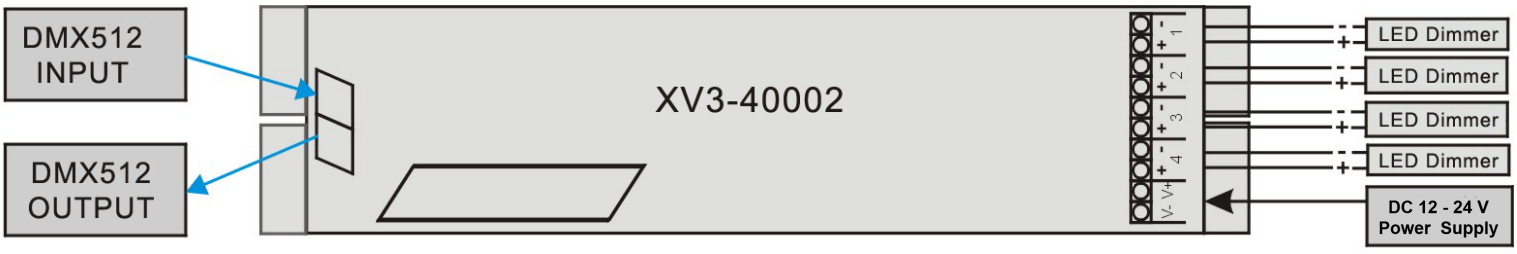
Connection Instructions :



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

Typical Applications

Circuit Diagram



Connection Notes of DMX512 Signal:

- The DMX cable used 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).