EuControls
COLORS AND LIGHTS UNDER YOUR CONTROL

XD3-30500-RJ

DMX Decoder/Driver

Product Features

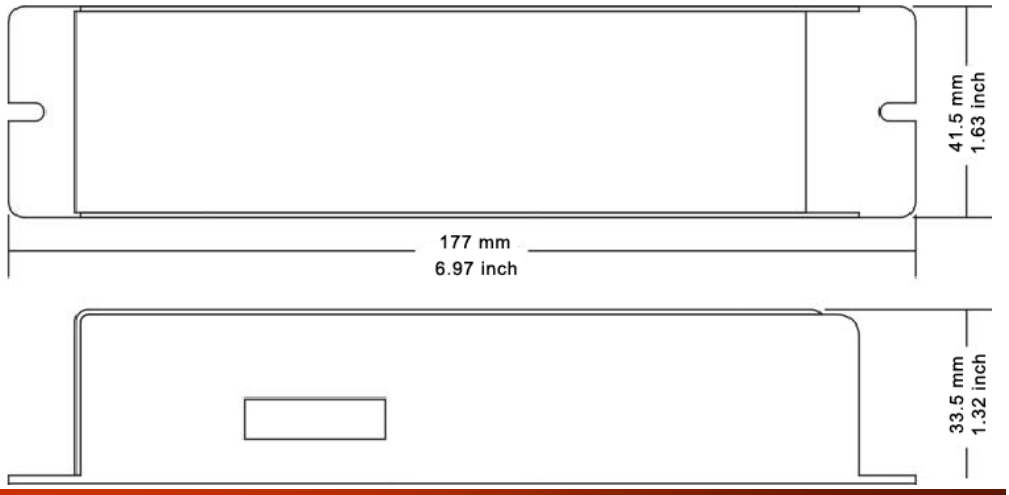
- Meets DMX512(1990) International Standard.
- 256 grey level changes and full-color control.
- 3-channel output, 5A MAX each channel.
- Set DMX address through DIP Switches.
- ETL certified to be compliant to widely accepted product safety standards.

RECOGNIZED COMPONENT

Product Specifications

Channels	3
Input Signal	DMX-512/1990 digital signal
Output Signal	0 to Vin, 256 Step PWM signal, maximum 5A (Each Channel)
Input Voltage Range (Vin)	12 to 24VDC
Power Consumption w/o Load	< 1W
Output Power (Pout)	≤ 360W @ 24VDC Input; ≤ 180W @ 12VDC Input
Operating Temperature	0-70℃
Product Dimensions	(L)177 x (W)41.5 x (H)33.5 (mm); (L)6.97 x (W)1.63 x (H)1.32 (inch)
Packing Dimensions	(L)180 x (W)43 x (H)38 (mm); (L)7.09 x (W)1.69 x (H)1.5 (inch)
Net Weight	243grams
Gross Weight	255grams

Dimensions



XD3-3500

DMX Decoder\Driver

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XD3-30500-RJ

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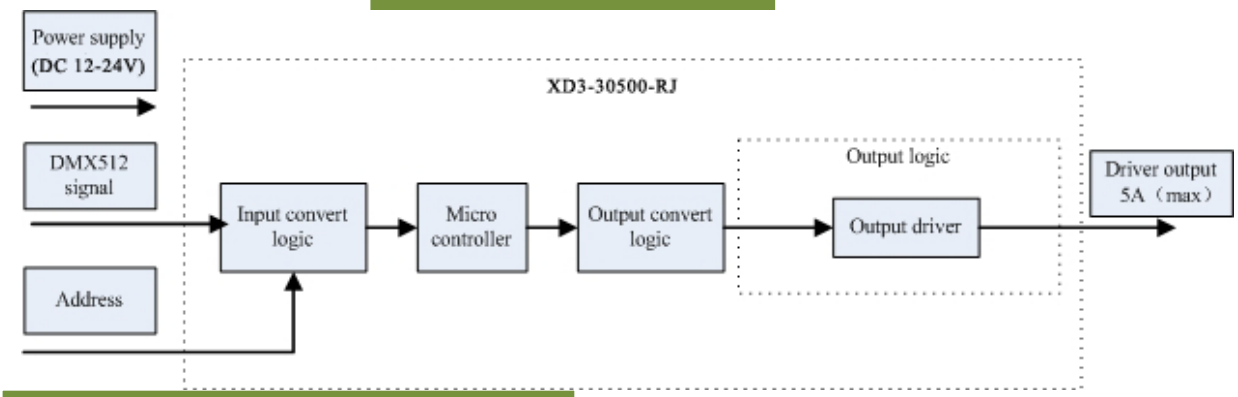
Block Diagram



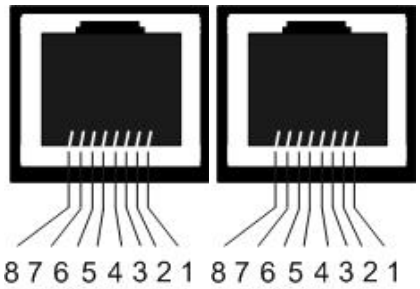
Appearance

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

Ports

- **DMX Signal Ports:**

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



- **DMX Series Address Code Table:**

Zone	DIP Switch Settings 1	2	3	4	5	6	7	8	9	10	Comment
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”

- **DMX Address setting DIP switch**: Please see “DMX Series Address Code Table”.
- **Power input port**: DC 12-24V input supplies power for the decoder and the connected lights.
- **Driver Output ports (3-Channels)**: Common anode driver with a V+ and 3-channel RGB output can be connected to various full-color modules or single-color modules; Automatically adjusts output current to module load requirements.

Notes:

- Driver output port 4-Pin Common anode full-color modules are connected between the output “V+” terminal and corresponding RGB terminals on the driver’s output ports.
- Single-color modules are connected Anodes to output “V+” terminal. Then according to the module color, connect the Cathode “-” wire to the corresponding RGB terminal on the driver’s output ports. If several different Single-color modules are to be connected to the same decoder, then all their Anode “+” wires must be connected to the “V+” terminal of the driver’s output port.

XD3-30500-RJ
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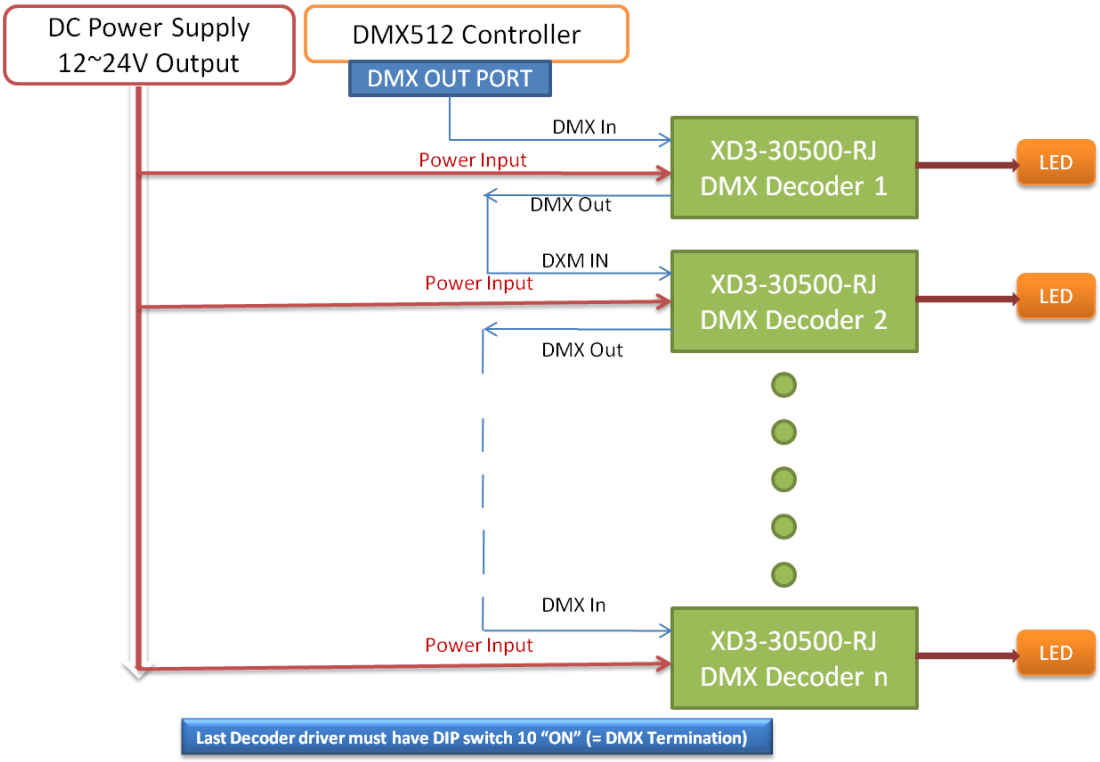
Usage

XD3-30500-RJ RGB Decoding driver is controlled by a DMX-512 digital signal. Its DMX input port is connected to a DMX-512 controller. Its power input port is connect to 12-24VDC power supply and its power output ports are connected to LED modules to allow control of 3 separate channels. (Using EC-DMX512 and LED lights as examples).

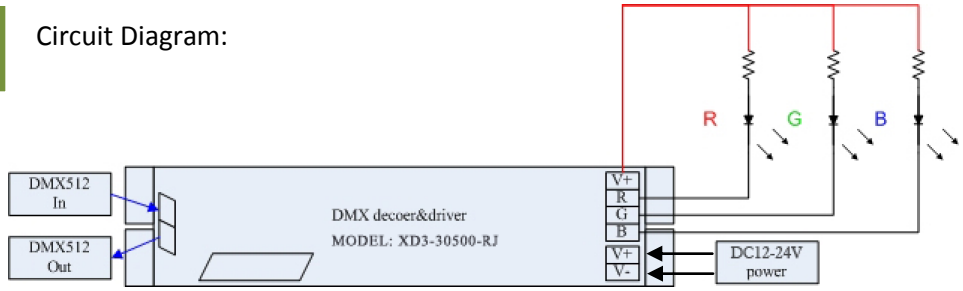
Connection Example:



Notes:
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 of DMX-512 Signal:

- The DMX cable is CAT 5 networking cable. The DMX signal has "+" and "-" signals. Please pay attention to polarity when making the connections. Correct connection of the "+" wire, "-" wire and "ground" wire from a DMX512 controller to the corresponding input ports of XD3-3500-RJ 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).