

XD3-40300-RJ

DMX Decoder/Driver

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Product Features

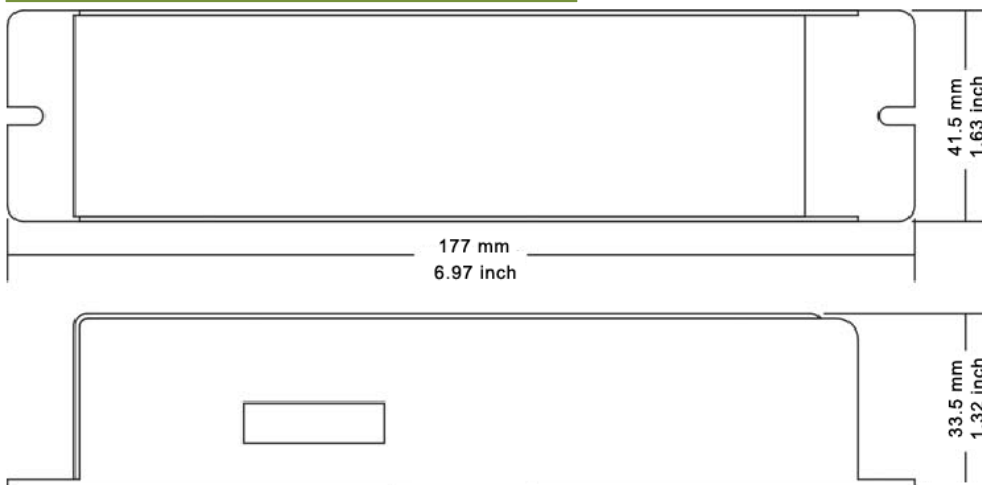
- Meets DMX512(1990) International Standard.
- 256 grey level changes and full-color control.
- 4-channel output, 3A MAX.
- Set DMX address through DIP Switches.

Product Specifications

- Channels 4
- Control Signal DMX-512/1990 digital signal
- Output Voltage/Current 0 to V+ (V+ is input voltage), maximum 3A (Each Channel)
- Input Voltage Range (V+) 12 to 24VDC
- Power Consumption w/o Load < 1W
- Output Power (Pout) ≤ 288W
- Operating Temperature 0-70°C
- 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

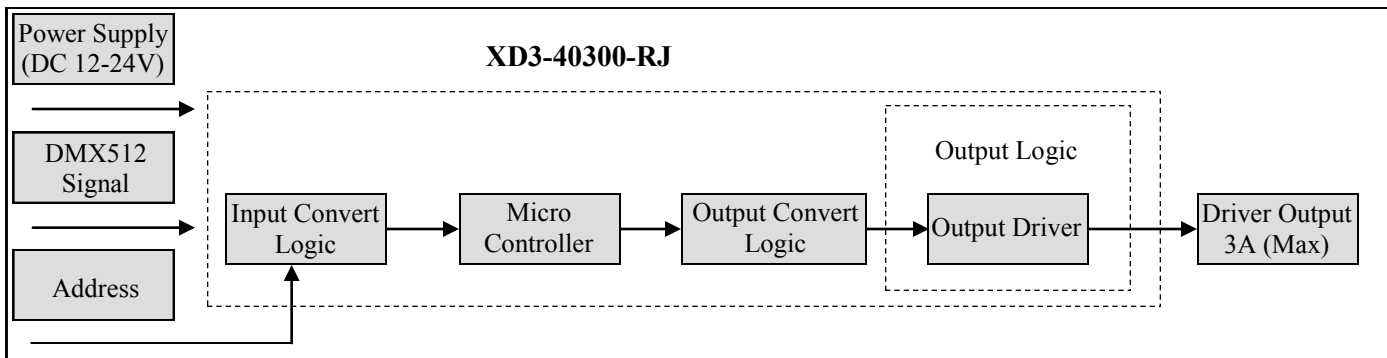


Dimensions

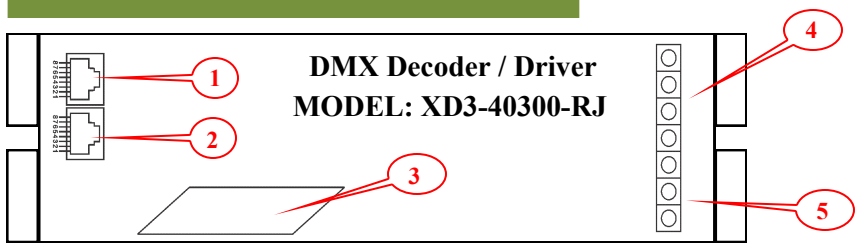


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Block Diagram



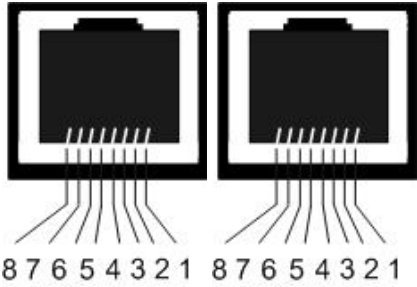
Appearance



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

Ports

- **DMX Signal Ports:**
 - 1: DATA+.
 - 2: DATA-.
 - 3-6: NC.
 - 7-8: GND



● **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	0	Binary 000000001 = address "1"
2	1	0	1	0	0	0	0	0	0	0	0	Binary 000000101 = address "5"
3	1	0	0	1	0	0	0	0	0	1	0	Binary 000001001 = address "9" Last zone-termination (DIP 10) = "ON"

- **DMX Address setting switch port:** Please see "DMX Series Address Code Table".
- **Input Power port:** DC 12-24V input supplies power for the decoder and the connected lights.
- **Output ports (4-Channels):** Common anode driver with a V+ and 4-channel RGB output can be connected to various full-color modules or single-color modules; Automatically adjusts output current to module load requirements.

Notes:

- 4-Pin Common anode full-color modules are connected between the output "V+" terminal and corresponding RGB terminals on the decoder'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 decoder'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 decoder's output port.

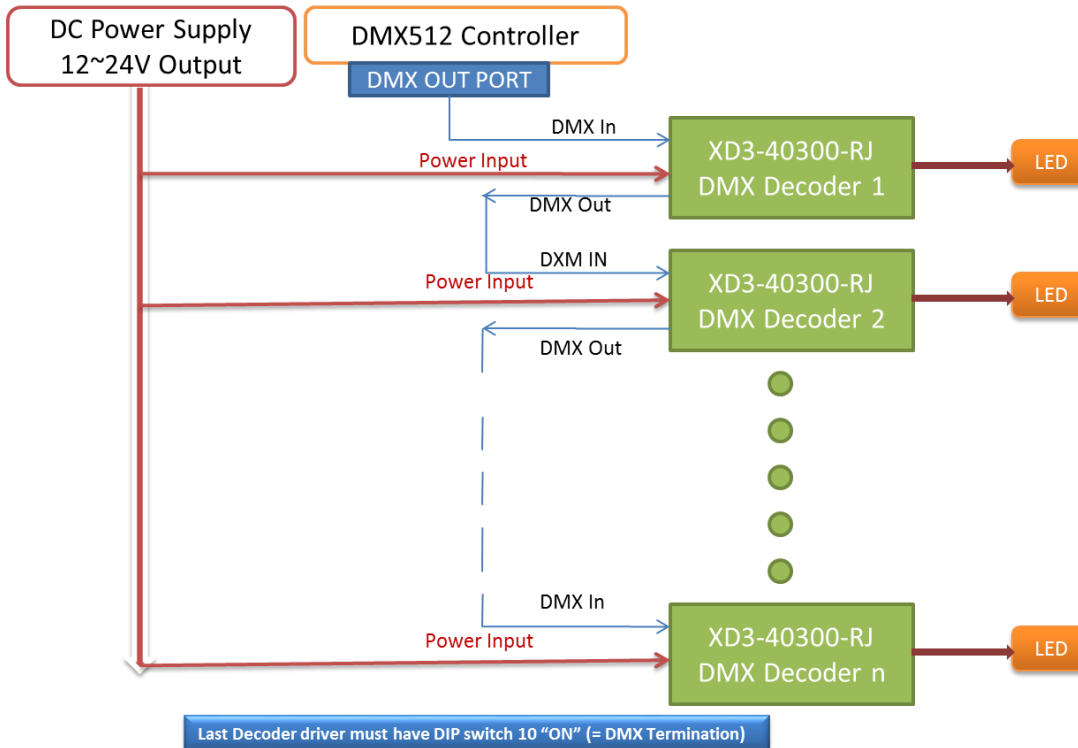
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Usage

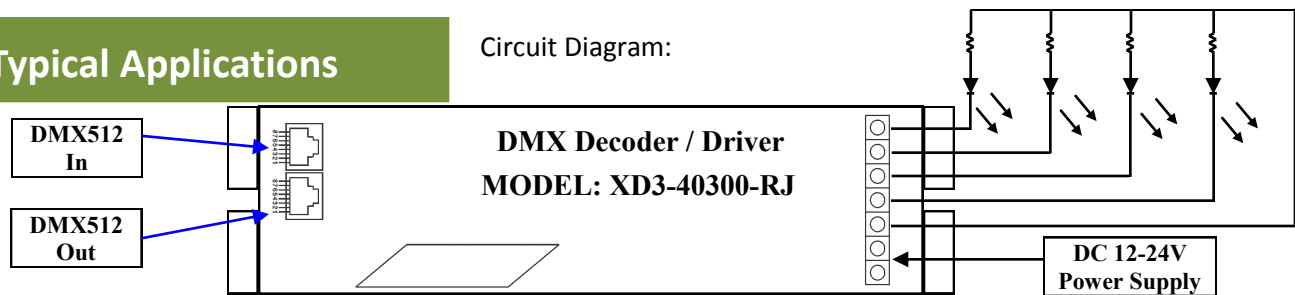
The XD3-40300-RJ RGB Decoding driver is controlled by a DMX-512 digital signal. Its DMX input port is connected to a DMX-512 controller. Its power input port is connected to 12-24VDC power supply and its power output ports are connected to LED modules to allow control of 4 separate channels. (Using EC-DMX512 and LED lights as examples).

Connection Example:



Typical Applications

Circuit Diagram:



Connection of DMX-512 Signal:

- The DMX cable is a 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 XD3-40300-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).