

PX24505

DMX512/RDM RGBW Decoder

Summary

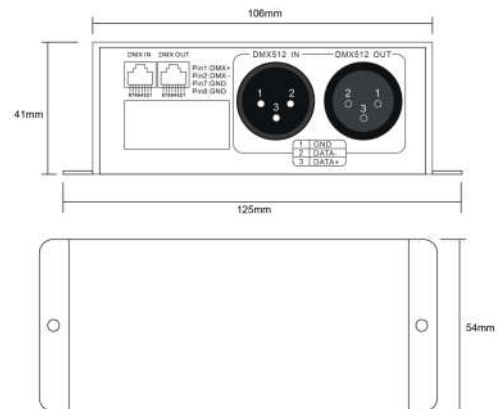
Welcome to use PX series DMX512/RDM decoder & driver. PX series adopt the advanced micro-computer control technology and converted the DMX512,RDM/2009 digital signal widely used in international to the PWM control signal. 1~4 channels output for option and each channel able to achieve 256 gradations of controlling, and also it can be used as the connector of PC digital light controller and analog light modulator. It is mainly used for the controlling of buildings & lights applied LED.

Product Features

- Meets DMX512/1990,RDM /2009 protocol
- Supported RDM parameters:
 DISC_UNIQUE_BRANCH
 DISC_MUTE
 DISC_UN_MUTE
 DEVICE_INFO
 SOFTWARE_VERSION_LABEL
 DMX512/RDM_START_ADDRESS
 IDENTIFY_DEVICE
 MANUFACTURER_LABEL
 SUPPORTED_PARAMETERS
- In DMX mode set the DMX address manually by switch; in RDM mode, the host computer address allocation
- Constant voltage output, the maximum current of 6A /ch for RGBW decoder
- 256 grade brightness adjustment
- Short-circuit protection,overload protection,over-temperature protection



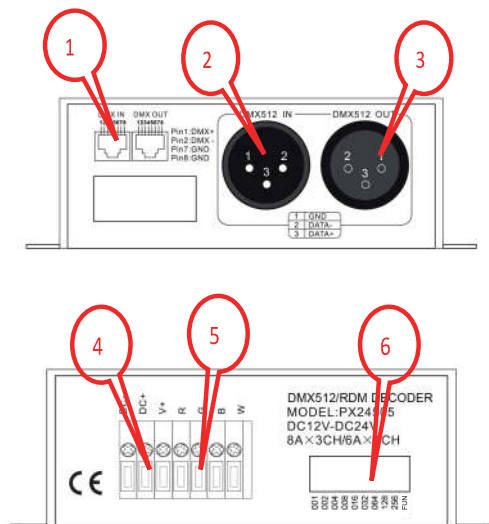
Dimension(mm)



Technical Parameters

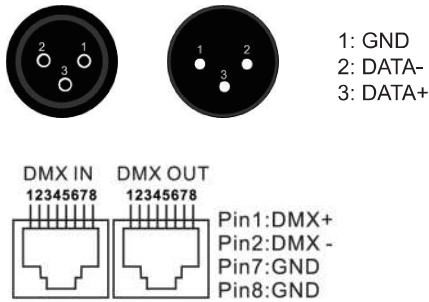
Model	PX24505	
Output	Channels	1-4
	Voltage	12-24VDC
	Current	6A*4CH/8A*3CH
	Power	288W(12V)/576W(24V)
Input	Voltage	12-24VDC
	Standby loss	< 1W
	Control signal	DMX512 1990/RDM 2009
Others	Dimension	125*54*41 mm (L * W * H)
	Packing size	136*66*42 mm (L * W * H)
	G.W.	344g
	Operation temperature	-20 - 50°C
	Relative humidity	20% -90%RH

Interface Description



- (1) RJ45 Signal input and output interfaces
- (2) XLR-3 DMX512/RDM signal input interface
- (3) XLR-3 DMX512/RDM signal input interface
- (4) Power input interface
- (5) Driver output interface
- (6) Address setting interface

Interface Introduction



Remark:

Connect the anode and RGBW wire of common anode RGBW module to the output interface of decoder directly; Connect the anode wire of single-color module to V+ on decoder, and connect the cathode wire to one of RGBW pin according to the LED's color; Connect several colors single-color module to one decoder, please connect their anode wires to V+ pin on decoder.

DIP Switch Setting

	DIP1	DIP2	DIP3	DIP4	DIP5	DIP6	DIP7	DIP8	DIP9	DIP10
OFF	0	0	0	0	0	0	0	0	0	NA
ON	1	2	4	8	16	32	64	128	256	FUN

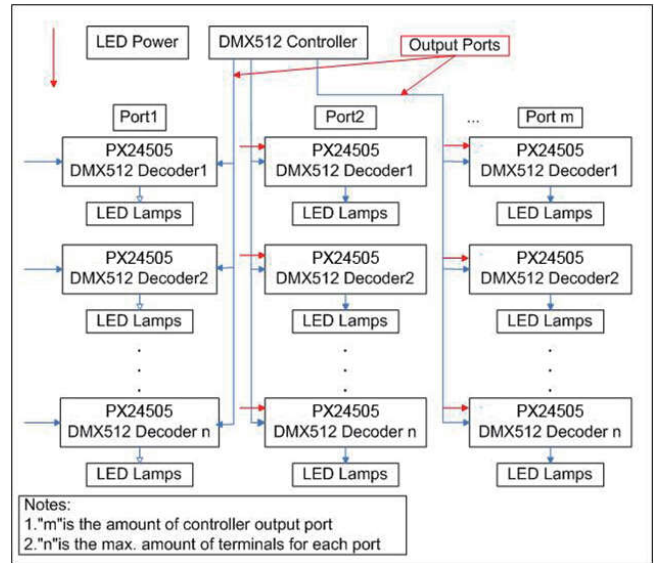
DIP1~9: Setting the first DMX address of device, the sum of number showed in the table above is the first DMX address of device.

In DMX mode, the effective address is 1-511, and 511 is for fixed mode (511 means output RGBW gradient).

When the address is 0, the default is RDM mode.

DIP10: FUN is 120 ohm terminal resistance.

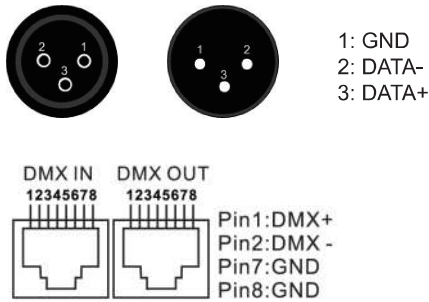
Wiring Diagram



- 1) Use the CAT-5 cable or three-core shielded cable as DMX512/RDM signal cable, and DMX512/RDM signal has the positive and negative signal. While welding the DMX512/RDM signal cable plug, there must pay much attention to distinguish between positive (+) and negative(-), and then connect the DMX512/RDM signal cable with the corresponding input interface of PX0408 correctly.
- 2) Refer to "DMX Series of address dial code table" to set DMX address by dip-switch.
- 3) Connect a signal terminal at the end of the whole connection.

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- (2) XLR-3 DMX512/RDM signal input interface
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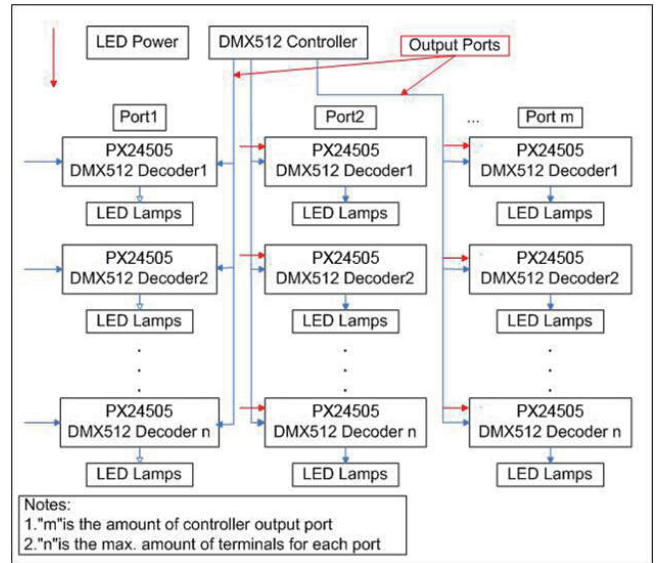
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PX24505

DMX512/RDM RGBW解码器

概述

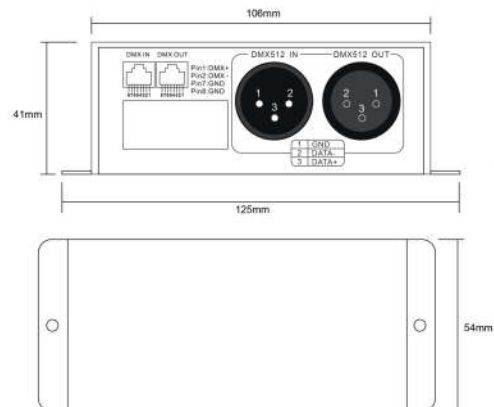
欢迎使用 PX系列 DMX512/RDM解码驱动器。PX系列采用先进的微电脑控制技术，把国际上广泛采用的DMX-512/1990，RDM/2009标准数码控制信号转换成模拟控制信号。可选择1-4路输出通道，每通道可实现256级控制级别。可用于电脑数码输出调光台与模拟硅箱的连接，建筑和灯饰用LED灯具的控制的使用场合。

产品特点

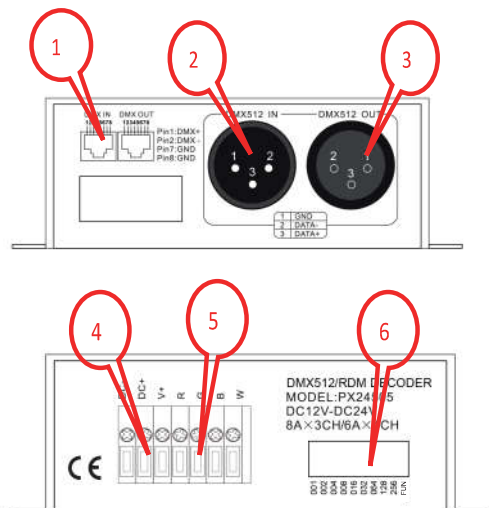
- 符合DMX512/1990,RDM/2009国际标准协议
- 支持RDM参数:
 DISC_UNIQUE_BRANCH
 DISC_MUTE
 DISC_UN_MUTE
 DEVICE_INFO
 SOFTWARE_VERSION_LABEL
 DMX512/RDM_START_ADDRESS
 IDENTIFY_DEVICE
 MANUFACTURER_LABEL
 SUPPORTED_PARAMETERS
- 在DMX模式下通过拨码开关手动设置DMX地址；在RDM模式下，上位机分配地址
- 恒压输出，输出电流为6A*4通道或8A*3通道
- 256等级亮度调节
- 短路保护，过载保护，过温保护
- 输入/输出接口为欧式端子，DMX512/RDM信号端接口为RJ45和XLR-3



产品尺寸mm



接口说明

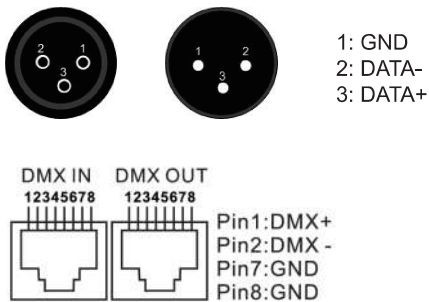


技术参数

型号	PX24505	
输出	通道数	1-4
	电压	12-24VDC
	电流	6A*4通道/8A*3通道
	功率	288W(12V)/576W(24V)
输入	电压	12-24VDC
	空载损耗	< 1W
	控制信号	DMX512 1990/RDM 2009
其它	产品尺寸	125*54*41 mm(长*宽*高)
	包装尺寸	136*66*47 mm(长*宽*高)
	毛重	344g
	工作温度	-20-50°C
	湿度	20% -90%RH

- (1) RJ45 信号输入和输出接口
- (2) XLR-3 DMX512/RDM信号输入接口
- (3) XLR-3 DMX512/RDM信号输入接口
- (4) 电源输入接口
- (5) 输出接口
- (6) 拨码开关

接口介绍



拨码开关配置

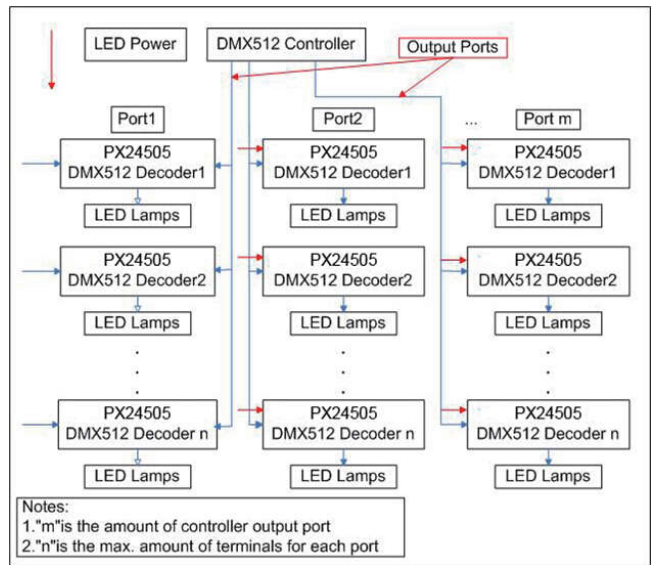
	DIP1	DIP2	DIP3	DIP4	DIP5	DIP6	DIP7	DIP8	DIP9	DIP10
OFF	0	0	0	0	0	0	0	0	0	NA
ON	1	2	4	8	16	32	64	128	256	FUN

DIP1~9: 设置DMX解码器的第一个通道的地址，拨码开关对应表格显示数字总和就是DMX解码器的第一通道地址。DMX模式下的有效地址为1-511，(地址511为自检模式，输出RGBW渐变)。

当地址设置为0时，默认为RDM模式。

DIP10: FUN代表是120欧姆的终结电阻。

接线图



- 1) DMX512/RDM接线为直连式，DMX512/RDM信号有正信号和负信号。接线时，要注意极性。将正信号，负信号和接地信号连接到设备相对应的接口。
- 2) 参阅“DMX系列地址拨码表”，通过拨码开关来设置DMX地址。
- 3) 整个接线的尾部最后需接信号终结器。