DMX512-SPI Decoder

Part #050205

ORGANIC LIGHTING

Project
Type
Date

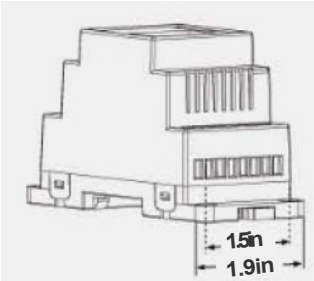
- Input voltage: 5-24VDC
- Input: DMX512 signal & RF (Customized)
- Output: SPI signal
- Working temperature: -22°F~131°F
- IP20
- Dimension: L4.5xW1.9x H2.6in
- Weight: 3.6oz

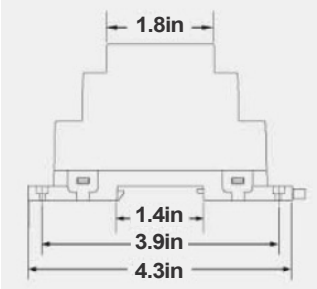
Compatible with Aqueon Diffuse RGB Dynamic and works under various modes.

DMX mode, it can work as DMX decoder with standard DMXS12 compliant interface, DMX address can be set easily and shown on the digital numeric display.

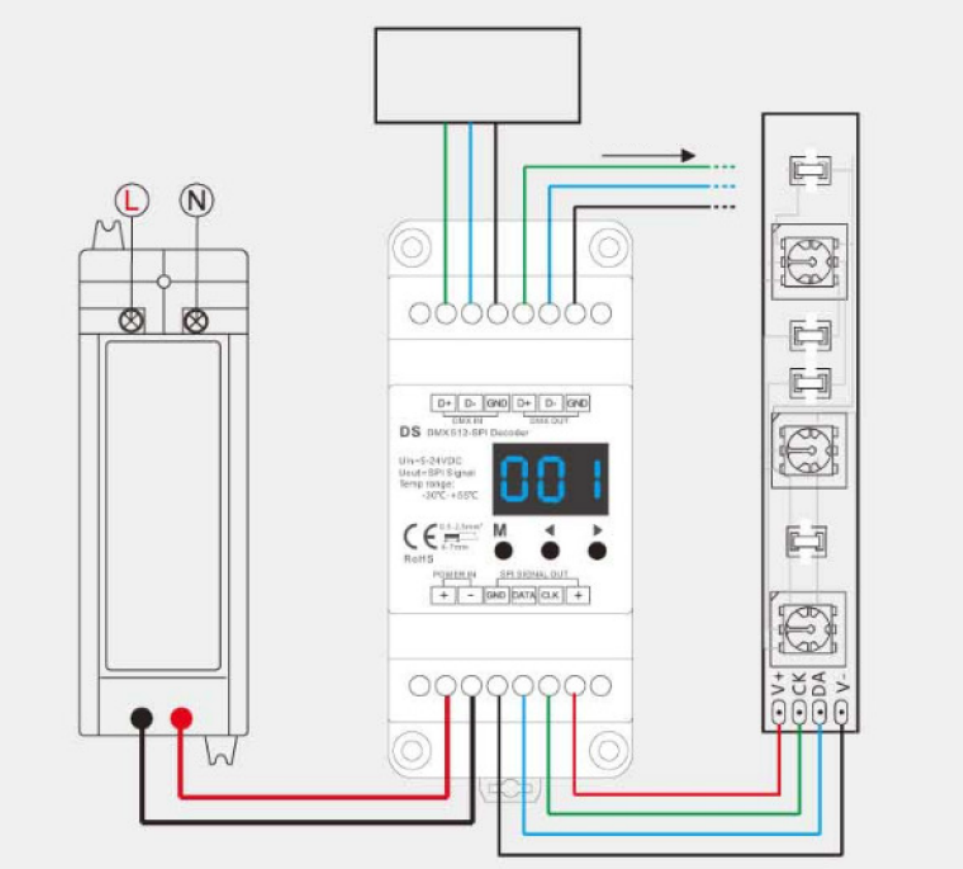
Stand-alone mode, it can work as SPI controller, have 32 kinds dynamic mode, adjustable speed and brightness.

RF mode, it matches with our RGB remoter, it also can be controlled by mobile phone through WiFi-Relay controller.





Wiring Diagram:



Safety & Warnings:

1. The product shall be installed and serviced by a qualified person.
2. Good heat dissipation will prolong the working life of the controller, please ensure good ventilation.
3. Ensure all wire connections and polarities are correct and secure before applying power to avoid any damages to the LED lights.

IP68 RoHS UL ETL US

Specifications are correct at the time of publishing, but may be modified or improved in accordance with current electrical, safety or manufacturing methods without notification.

DMX512-SPI Decoder
Part #050205

ORGANIC LIGHTING

Project

Type

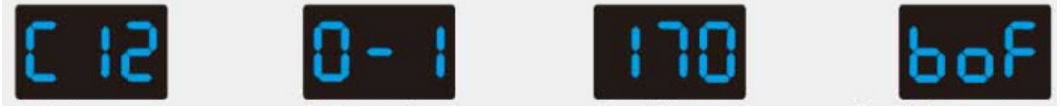
Date

Key Function

IC type, RGB order and pixel length setting

You must first assure IC type, RGB order and pixel length of the LED strip is correct.

- Long press M and < key, prepare for setup IC type, RGB order, pixel length, automatic blank screen , Short press M key to switch four item.
  Press ◀ or ▶ key to setup value of each item.
  Long press M key for 2s , or timeout 10s, quit setting.



IC Type | RGB order | Pixel length | Disable automatic blank screen

- IC type table

No.	IC type	output signal
C11	TM1803	DATA
C12	TM1809, TM1804, TM1812, UCS1903, UCS1909, UCS1912,UCS1912, UCS2903, UCS2909, UCS912, WS2811, WS2812	DATA
C13	TM1829	DATA
C14	TLS3001, TLS3002	DATA
C15	GW6205	DATA
C16	MBI6120	DATA
C21	LPD6803, LPD1101, D705, UCS6909, UCS6912	DATA, CLK
C22	LPD8803, LPD8806	DATA
C23	WS2801, WS2803	DATA
C24	P9813	DATA

- RGB order: O-1 - O-6 indicate six order (RGB, RBF, GRB, GBR, BRG, BGR)
- Pixel length: Range is 008-1024, b00-b24 indicate 1000-1024.
- Automatic blank screen enable ("bon") or disable ("boF") automatic blank screen.

DMX Mode

- Short press M key, when display 001-999, enter DMX mode.
- Press ◀ or ▶ key to change DMX decoder address (001-999), long press for fast adjustment.
- Long press M key for 2s, prepare for setup decode number and multiple of pixels.
  Short press M key to switch two item.
  Press ◀ or ▶ key to setup value of each item.
  Decode number (display "dno") : DMX decode channel number, range is 003-900.
  Multiple of pixels (display "Pno") : Each 3 DMX channel control length, range is 001-100.
  Long press M key for 2s, or timeout 10s, quit setting.

DMX Mode

Specifications are correct at the time of publishing, but may be modified or improved in accordance with current electrical, safety or manufacturing methods without notification.

DMX512-SPI Decoder

Part #050205

ORGANIC LIGHTING

Project

Type

Date

Stand-alone mode

- Short press M, when display P01-P32, enter stand-alone mode.
- Press ◀ or ▶ key to change dynamic mode number (P01-P32).
- Each mode can adjust speed and brightness.
  Long Press M key for 2s, prepare for setup mode speed and brightness.
  Short press M key to switch two item.
  Press ◀ or ▶ key to setup value of each ite,
  Mode speed: 1-10 level speed (S-1, S-9, S-F).
  Mode brightness: 1-10 level brightness (b-1, b-9, b-F).
  Long press M key for 2s, or timeout 10s, quit setting.

Stand-alone mode

Speed (8 level)

Brightness (10 level, 100%)

No.	Name	No.	Name	No.	Name
P01	Red horse race white ground	P12	Blue White chase	P23	Purple float
P02	Green horse race white ground	P13	Green Cyan chase	P24	RGBW float
P03	Blue horse race white ground	P14	RGB chase	P25	Red Yellow float
P04	Yellow horse race blue ground	P15	7 color chase	P26	Green Cyan float
P05	Cyan horse race blue ground	P16	Blue meteor	P27	Blue Purple float
P06	Purple horse race blue ground	P17	Purple meteor	P28	Blue White float
P07	7 color multi horse race	P18	White meteor	P29	6 color float
P08	7 color horse race close + open	P19	7 color meteor	P30	6 color smooth sectionally
P09	7 color multi horse race close+ open	P20	Red float	P31	7 color jump sectionally
P10	7 color scan close + open	P21	Green float	P32	7 color strobe setionally
P11	7 color multi-scan close + open	P22	Blue float		

SG!npef

Nbudi!xjui!S:-!S21-!S25!ps!pujfs!SHC!sfnpufs/

Nbudi;!!!!Mpoh!qsftt!N!boe!▶!lfz!gps!3t-!ejtqmbz!SMT-!xjujo!6t-!qsftt!boz!lfz!pg!ujf!SHC!sfnpufs-

! ejtqmbz!SM-!nbudi!jt!epof-!ui fo!vtf!sfnpufs!up!dibohf!npef!ovncfs-!bekvtu!tqffe!boe

! csjhiuoftt/!

Efmfuf;! Mpoh!qsftt!N!boe!!lfz!gps!6t-!voujm!ejtqmbz!SMF-!efmfuf!bmm!nbudife!sfnpufst/!

Specifications are correct at the time of publishing, but may be modified or improved in accordance with current electrical, safety or manufacturing methods without notification.