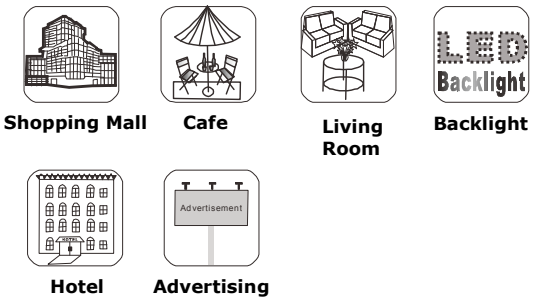
LED SD CARD CONTROLLER T1000S
PRODUCT SERIES DATASHEET

LED SD CARD CONTROLLER T1000S

88Light SD card controller adopts an advanced computer control chip specially designed to control a variety of LED light sources, such as single lamp, flexible strips, wall washer lamp, curtain wall light and so on.
88Light SD card controller allows you to edit your own pattern by using LED editor software.



Shopping Mall **Cafe** **Living Room** **Backlight**

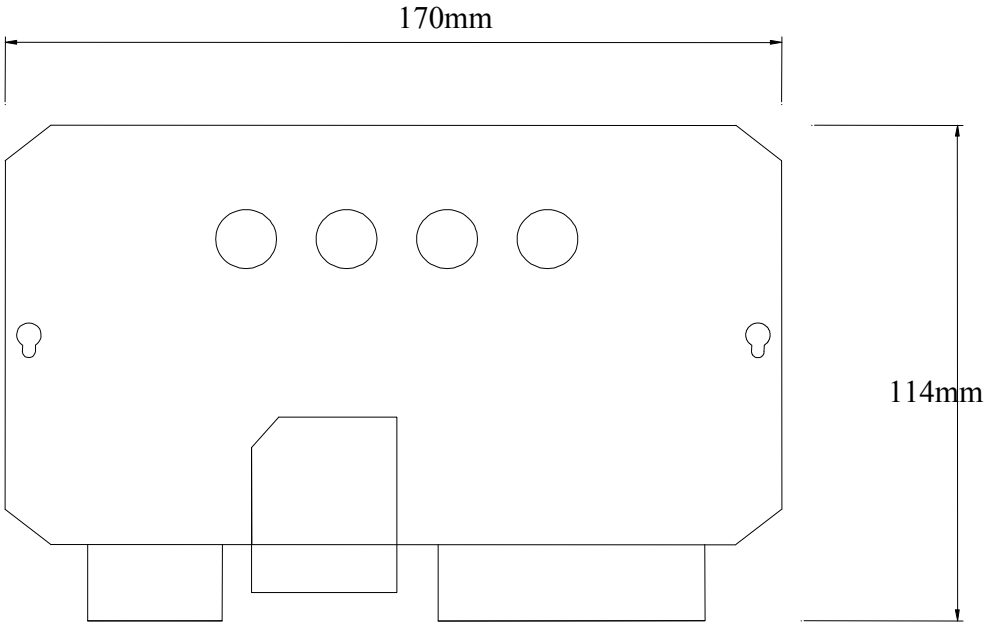
Hotel **Advertising**

PRODUCT FEATURES

- Easy to install and operate.
- Programmable with computer software LED Edit, the software is free.
- Compatible with multiple LED ligthing sources such as Flexible strips, modules, wall washer, curtain wall ligthing, etc.
- It can be controlled directly at the module control panel.
- Users can define their own lighting partens with the use of LED editor software.
- Cascadable, Max concatenation distance reach up 150 meter.
- Remote controller options.

PRODUCT DIAGRAM

External dimension



TECHNICAL DATA

Technical characteristics

Item	Value	Units
Power consumption	< 0.8	Watts
Power supply voltage	5 - 24	Vdc
Working Temperature	-20 to 60	ºC
Frame frequency	Max. 30	Frames per second (512 point)
Output channels	1	DMX channels
Control points	Max. 2048	Per controller
Grey	32-65536	Magnitude
Max. Ligthing patterns	Max. 16	Programs in SD Card
External dimesions	170 x 114 x 42	Millimeters

Note 1: The controller is computer programmable; please ask for the PC Software from 88Light.BV.

TECHNICAL DATA

Supported IC

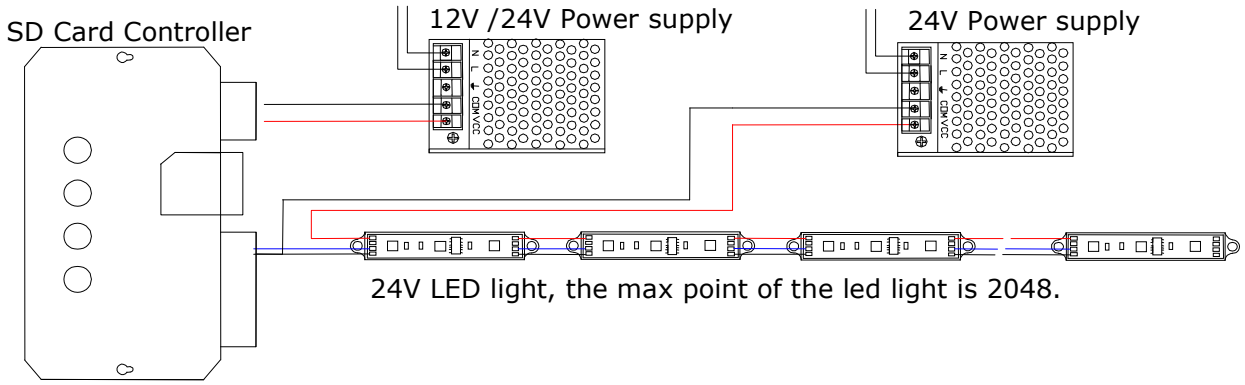
Number	Model	Number	Model
1	TM1803, TM1804, TM1809, TM1812, TM1829, TM1903, TM1904, TM1909, TM1912, TM1829.	11	TLS3001, TLS3008
2	UCS1903, UCS1903B, UCS1909, UCS1912, UCS2903, UCS2909, UCS2912, UCS3903, UCS6909, UCS6912, UCS7009, UCS5903.	12	LPD8806, LPD8809, LPD1882, LPD1889, LPD6812, LPD6813
3	TA9909	13	MY9221
4	MBI6021	14	BS0815
5	P9813	15	GW6203
6	WS2811, WS2801, WS2803	16	BS0825, BS0901
7	INK1003	17	HL32, HL1809, HL2803
8	TLS3100	18	RGB
9	DMX512	19	APA102
10	SM16711, SM16716, SM16726	20	D7710, D7720

Note 1: The IC model is selected when making the program in computer.

PRODUCT INSTALLATION

Single wire IC typical installation:

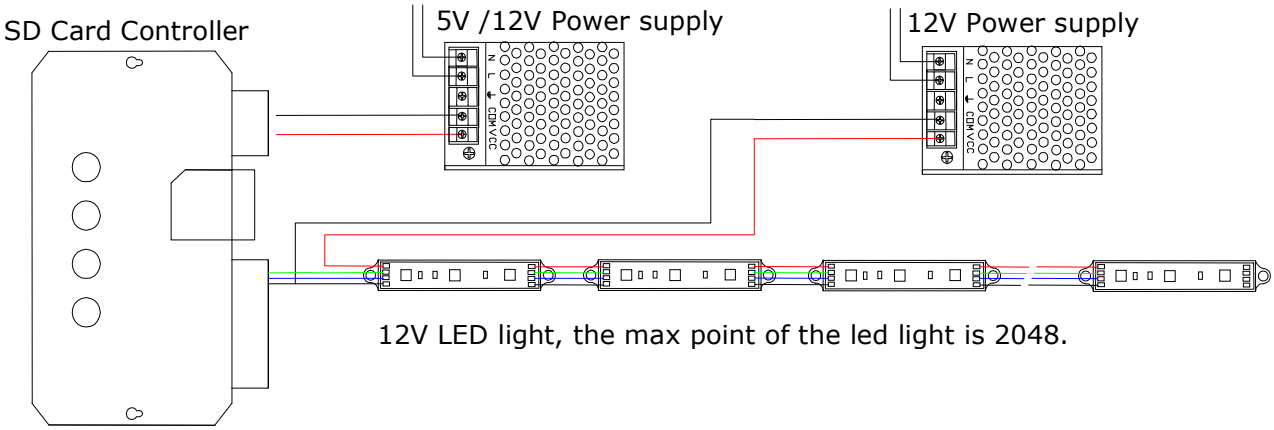
Connect the signal and data line to the corresponding terminal as shown below:



PRODUCT INSTALLATION

Double wire IC installation:

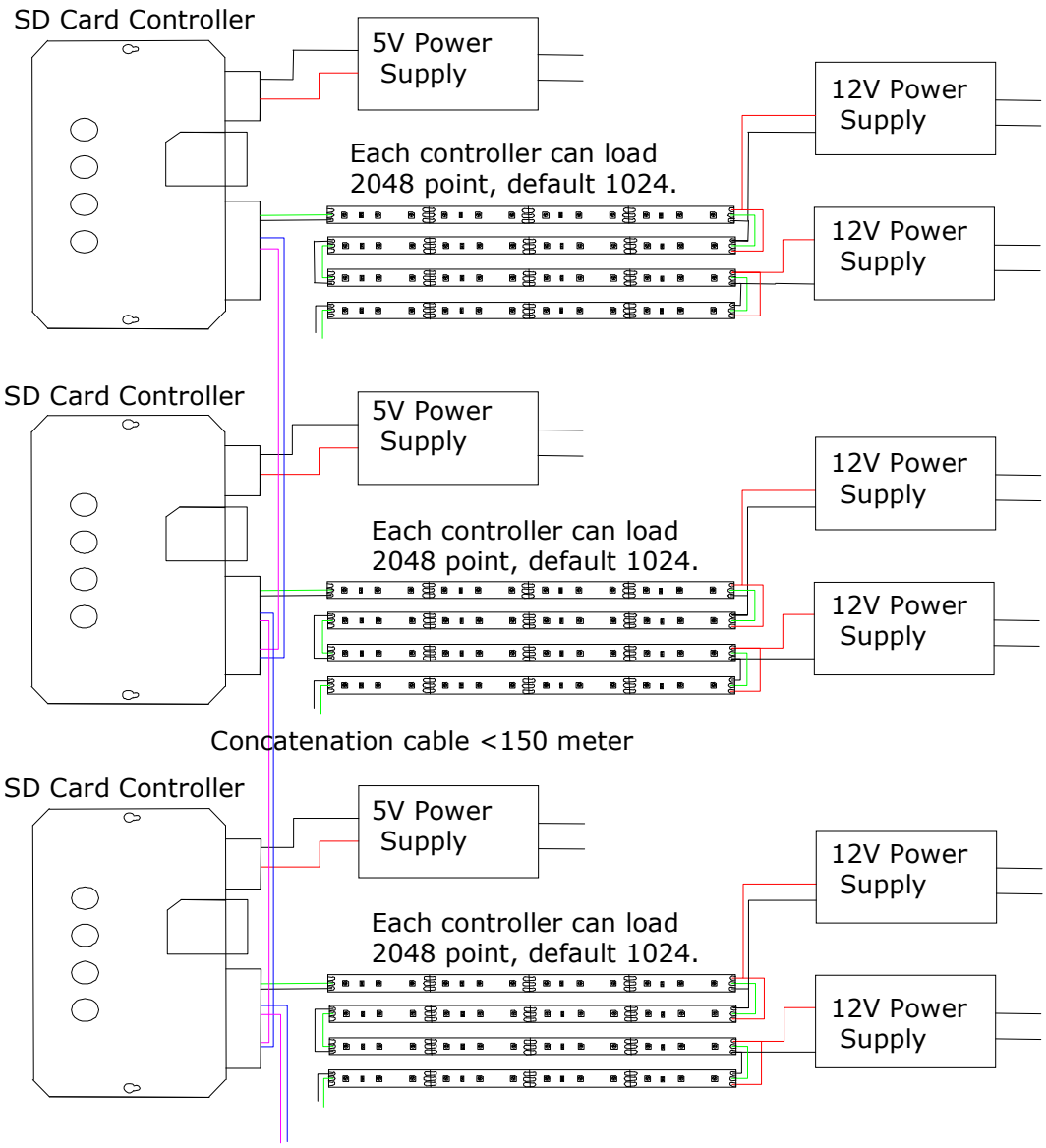
Connect the clock and data line to the corresponding terminal as shown below:



Notice:
1. Connect the load wire at first, following by the power wire; Please make sure short circuit will not occur between wires before you turning on the power;
2. Power supply voltage range is DC5~24V, a higher voltage might burn the controller; a lower voltage might not driver the controller normally.
3. Reset operation can be performed when plugging in the SD card.
4. Make sure SD card is formatted as (FAT) before use.
5. For single application, if error indicator flickers, it means error; please check the SD, programs, connections.
6. The max distance from DMX controller to the start side of the strips is 10 meter, if too large distance, the data signal will go wrong and patterns also will wrong.
7. Max qty of patterns is 16, and pattern number is from 00 to 15, numbers must be in series.
8. When multiple controllers used, SD number is started from 1 to last.
9. Remote controller keys A==set; B==Mode; C==Speed+; D==Speed-. When press the keys on remote controller, please keep pressing slowly, or command will not be accepted.
11. The antenna wire length will affect the remote control distance; max distance is about 10meter with max antenna wire length.

PRODUCT INSTALLATION

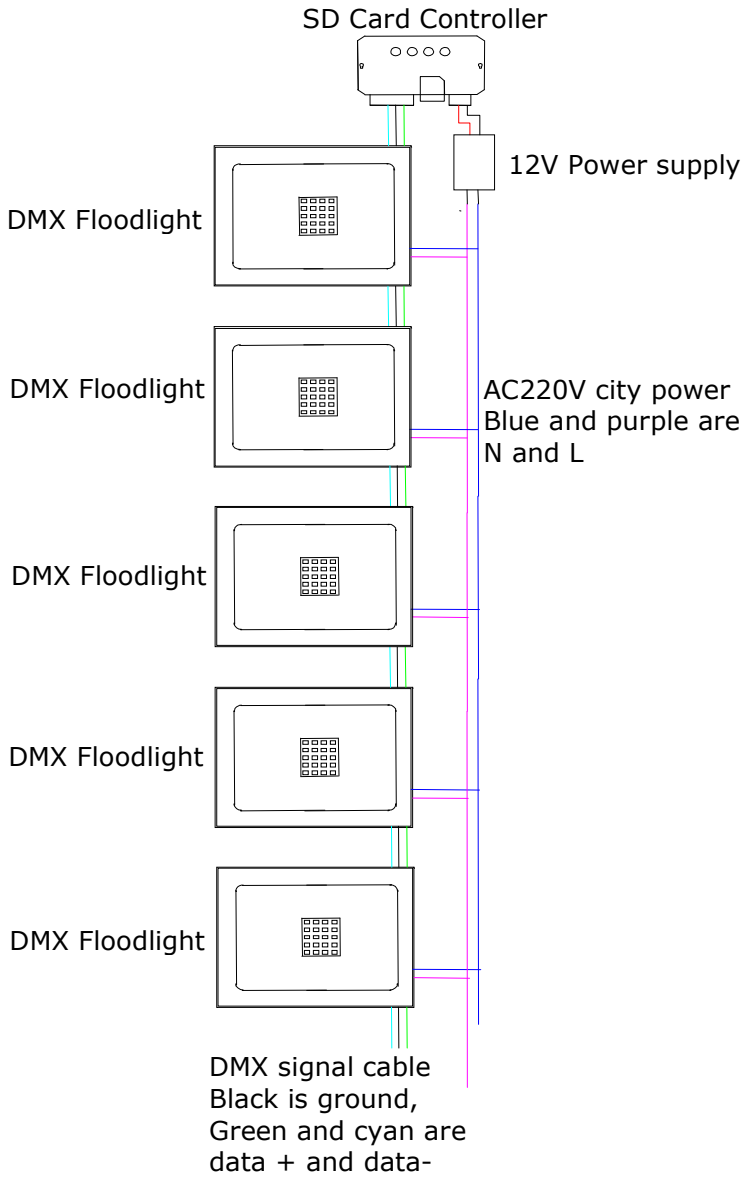
Concatenation installation:(Synchro working needed)



Note: when working in synchrony mode, the error indicator will flicker, it's normal, and the flicker frequency will change when working in different speed. (The first DMX controller doesn't flicker, otherwise its wrong).

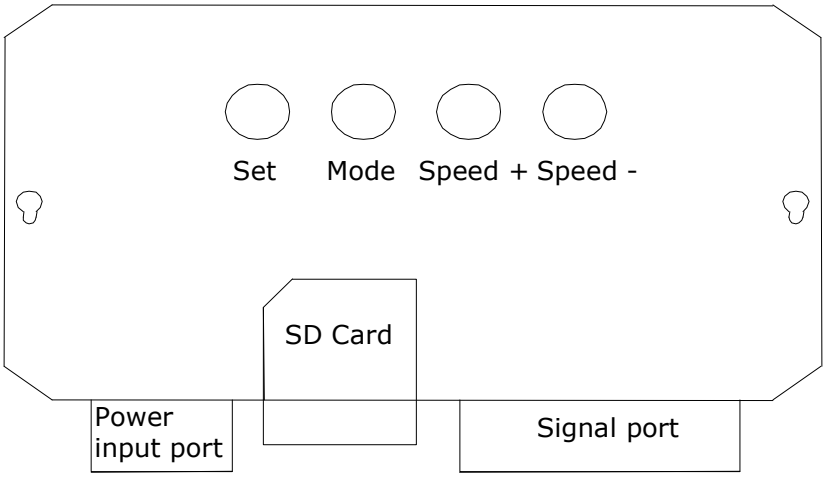
PRODUCT INSTALLATION

Concatenation installation:



PRODUCT OPERATION

LED SD Card Controller control panel button instructions



Key instructions

Set key: Save settings (Save current setting file and playback speed).
Mode key: Change programs.
Speed+ key: Speed up.
Speed- key: Speed down.
Speed+ and Speed- key: if press speed+ and speed- at the same time, the program will play circularly.

Port and indicator instructions

DC5V: if the input voltage is 5V or lower than 5V, please connect DC5V and GND port to the power supply.
GND: connected to power GND pole.
7.5-24V: if the input voltage is larger than 5V, please connect 7.5-24V and GND port to the power supply.
Power LED indicator: when there is the power supplied.
ERROR LED indicator: No SD card or SD card is wrong, or other error occurs, the light will flash.
SD Card: SD card slot, please insert SD card.
CLK: Clock signal out.
DAT: Data signal out.
GND: Signal ground.
B: DMX- / (88Light Decoder 2.)
A: DMX+ / (88Light Decoder 3.)
GND: Signal ground. / (88Light Decoder 1.)

Input A, Input B, Output A and Output B: When two or more than two controller needed, the controller should be connected in cascaded, connect Output A of the first controller to the Input A of the second controller, connect Output B of the first controller to the Input B of the second controller, connect Output A of the second controller to the Input A of the third controller, connect Output A of the second controller to the Input A of the third controller, the max length of the cable between two controllers is 150meters($0.5M^2$ copper cable) etc…

SAFETY

1. **Always** consult a qualified, licensed electrician prior to the installation of this product.
2. **Always** pre-test your LED light assembly by connecting it to a power supply and ensure that all components are joined properly before installing.
3. It is recommended that adequate airflow and heat sink be taken into account in the application and installation of this product. Improper thermal management may lead to premature failure.
4. Exceeding the operating temperature values may damage or reduce the product life.
5. Avoid voltage drop by using a dedicated line for each maximum power consumption line.
6. "Voltage drop" is a gradual lessening of power through a wire over a long distance. The farther the light is away from the power source, the more voltage drop will occur. Voltage drop becomes a significant factor in any LED light application when the distance between the lights and the power source exceed the maximum LED light recommendation. Consult a licensed electrician and an online voltage drop calculator to learn what gauge wire will work best for your configuration.
7. The manufacturer rates each power supply for maximum power output at optimum thermal and voltage conditions. As with any power supply, true actual maximum continuous current output depends upon various environmental factors such as ambient temperature, line voltage fluctuations, and orientation that may affect heat dissipation. For optimum performance, make sure the load is between 50% and 80% of the total capacity of the power supply.
8. LED products are continuously being improved upon in ever-shortening manufacturing cycles. LED color temperature (kelvin), lumen output, and product appearance can change from order to order. Please note that variation in color temperature (kelvin) is commonly +/- 250k and brightness (lumens) is +/- 10%.

PACKING

Product Name	Qty Pcs/box	Box dimensions [mm]	Gross Weight [Kg]	Net Weight [Kg]
88L-DMX-T1000S	1	180 x 120 x 45	0.32	0.29

OTHER 88Light PRODUCTS:

For more information about 88Light products, or to use our online energy saving calculation software please visit our website

www.88light.com

DISCLAIMER:

88Light reserves the right to modify the design of our products as part of the company's program of continuous improvement. 88Light cannot guarantee to match existing installed product for subsequent orders or replace the product exactly to match the product you are replacing in product appearance, color, or brightness. Specifications are subject to change without notice.