

## DIGITAL LED CONTROLLER

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Ref: 41.048

5V - 24V

Controller for digital led strips, eight exits and each one can support up to 512/1024 pixels. It is apt for controlling up to 8192px (12fps).

It supports a maximum of 32 speed modes. After removing the SD card from the controller, if you want to add other programs, you must format the SD card to "FAT" (128MB-2GB).

The program has to be named as follows, with the extension: \*.led (eg.led).

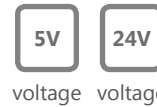
The controller can be used in cascade and the distance between the two controllers can reach 150m.

The led strip must have 4 channels (RGBW), or just 1 channel like a led module.

The controller comes with the following sample effects such as:

1. Jumping effect, red, green, blue and black.
2. Degrading effect, red, green, blue and black.
3. Red, green and blue.

Working software: LedEdit.

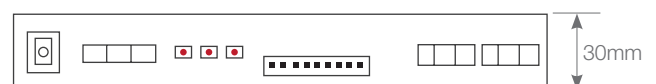
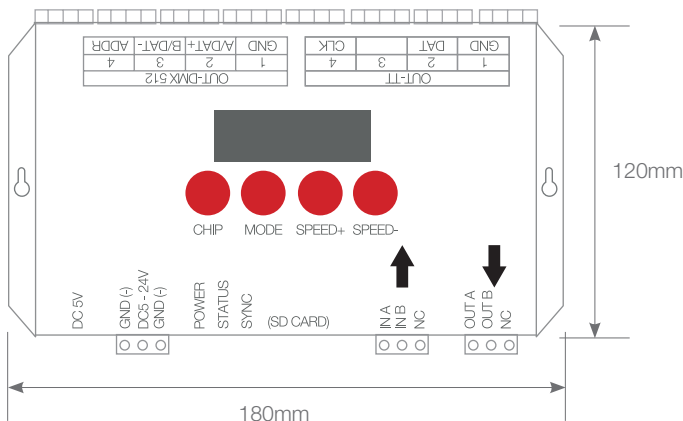


Ref: 46.020

Product	SD card
Capacity	128MB - 32GB
Format	FAT (128-2GB) / FAT32 (4GB-32GB)
File storage format	*.led

Product	digital led controller
Working voltage	5V-24V
Working current	< 60mA
Electric feed	by means of jack connector or terminal with screws for cables
Maximum pixel load	4096 to 30fps 8192 to 12fps
IC compatible models	WS2811, WS2812B, TM1809, UCS1903 y TM1812
Working temperature	-20°C / +60°C
Product dimensions	180x120x30mm
Control types	by means of the buttons on the controller
Synchronous controller	yes, they can be synchronised by means of a mains cable connection and a RJ45 connector

Approved by: 



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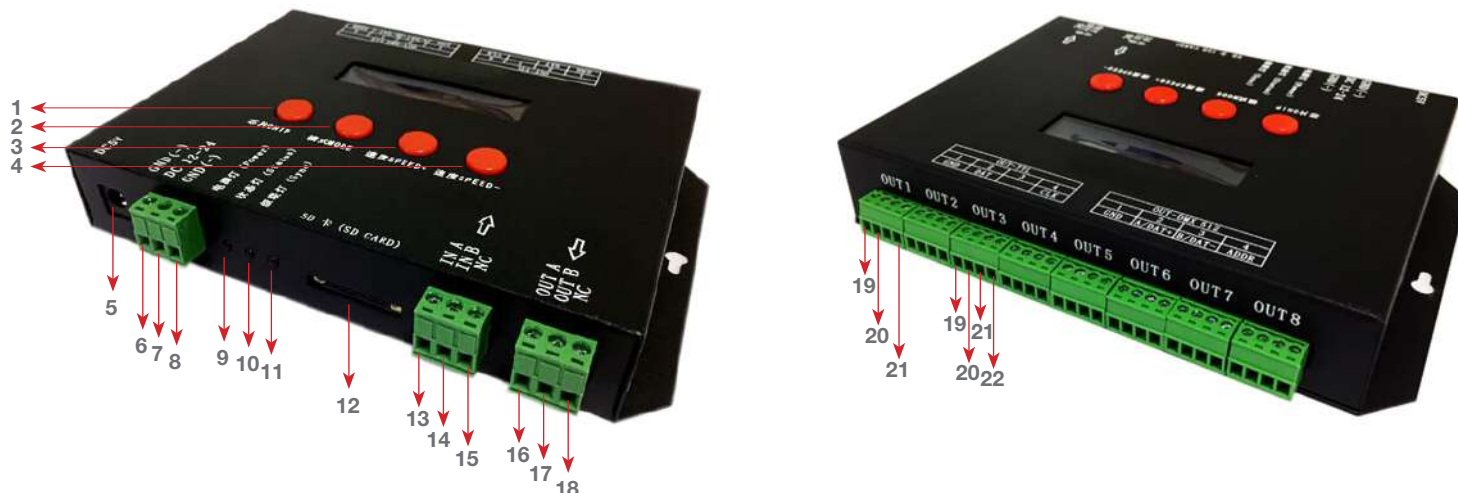
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Controller functions:



Buttons	Function
CHIP (1) SELECT CHIP	Press CHIP and next MODE to enter the code writing mode; 61 - Coding UCS512-A/B 62 - Coding WS2821 63 - Coding SM512 64 - UCS512-C
MODE (2) CHANGE FILES	
SPEED + (3) ACCELERATE SPEED + (4) REDUCE	By pressing SPEED + SPEED at the same time, this allows you to continuously repeat the sequence ON/OFF

Entrance	
5V (5)	Entrance feed of 5V
GND (6 y 8)	Earth connection for power supply
12V-24V (7)	Entrance feed of 12V to 24V
SD CARD (7)	Slot for SD card (128MB - 32GB)

Indicators	
POWER (9)	Ignition led indicator (correct working)
STATUS (10)	Status led indicator
SYNC (11)	Cascade connection led indicator

Ports for the controller connection	
INPUT A (13)	Data entrance A for the synchronize function
INPUT B (16)	Data entrance B for the synchronize function
NC (15, 18)	They don't connect
OUT A (14)	Data exit A of the synchronize function
OUT B (17)	Data exit B of the synchronize function

Exits for the TTL/245 signal	
GND (19)	Earth signal
DAT (20)	Sign +
CLK (21)	Time signal

Exits for the DMX512 signal	
GND (22)	Earth signal
A / DAT (23)	Sign +
B / DAT (24)	Sign -
ADDR (25)	Line code

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Speed frame by levels:

Speed level	Frame frequency/sec	Speed level	Frame frequency/sec
1	4 frames	9	14 frames
2	5 frames	10	16 frames
3	6 frames	11	18 frames
4	7 frames	12	20 frames
5	8 frames	13	23 frames
6	9 frames	14	25 frames
7	10 frames	15	27 frames
8	12 frames	16	30 frames

Connection:

