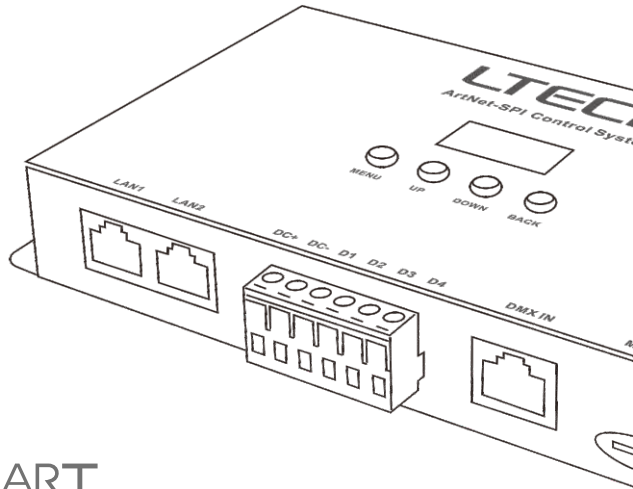


LTECH

ArtNet-SPI Control System

Model: Artnet-SPI-4
Artnet-SPI-8



Product Introduction

- Ethernet Control System based on the ArtNet protocol.
- Convert the ArtNet network data package into SPI data.
- Adopting high-speed ARM processor, stable and reliable.
- With RJ45 network and DMX512 interface, support DMX management.
- With OLED screen and 4 keys, very easy for setting operation.
- Support firmware update function.
- Support recording function, support multiple device offline sync playback function.
- Support offline timing and loop playback.
- Supports serial/parallel connection of network cables.
- Supports static/dynamic IP settings.
- Compatible with the light software based on ArtNet protocol.
- Used in LED dot matrix and DMX512 stage lighting control.
- Offline synchronized playback does not need to specify the master and slave.
- Suitable for TV station recorded scene, stage performances, entertainment, building lighting and so on.



Manual



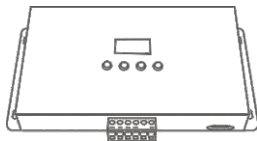
Technical Specs

ArtNet-SPI-4 / ArtNet-SPI-8

Input voltage :	5-24Vdc	Screen:	OLED
Input signal:	Ethernet (ArtNet)	Isolation ethernet port:	Total isolation
Output signal:	SPI	Isolation power input:	Total isolation
SD card capability:	8G	Working temperature:	-30°C-55°C
DMX connection:	RJ45	Dimension:	L170xW90xH25mm
Network connection:	RJ45	Package size:	L192xW132xH50mm
Control:	ArtNet-SPI-4: 680 pixels, 4 universe ArtNet-SPI-8: 1360 pixels, 8 universe	Weight (G.W):	610g

Compatible IC: TM1809/TM1804/TM1812/UCS1903/UCS1909/UCS1912/UCS2903/UCS2912
 WS2811/WS2812/SK6812/TM1803/TLS3001/KL590/KL592D/WS2821/TM1829LS
 MBI6120/GW6205/GS8206(BGR)/SM16703

Package Contents



Control system 1pcs



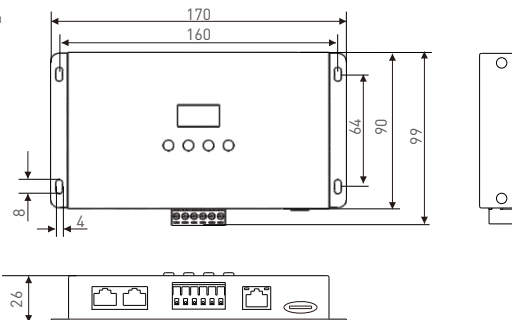
SD card (8G) 1pcs



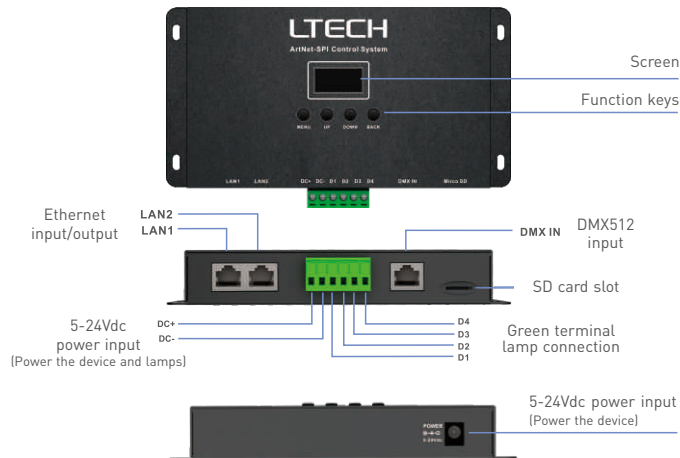
Manual 1pcs

Product Size

Unit: mm



Main Component Description



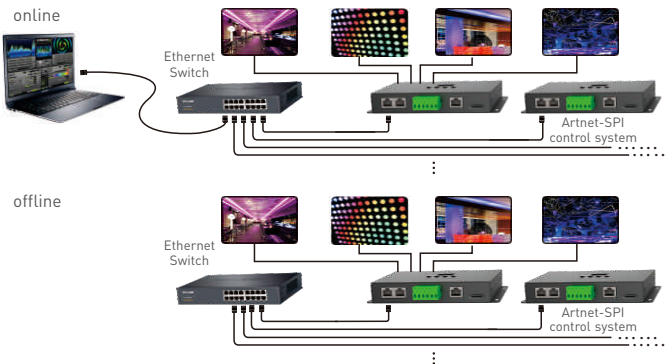
Wiring Diagram

1. Connection in series



* Offline synchronized playback no need to specify the master and slave.

2. Connection in parallel



* Offline synchronized playback no need to specify the master and slave.

* Parallel connection is recommended for large number of devices.


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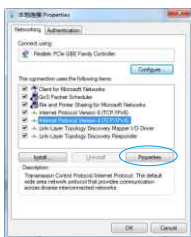


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Connect ArtNet control system to computer

This product is compatible with all the ArtNet software in the market, here take MADRIX as an example:

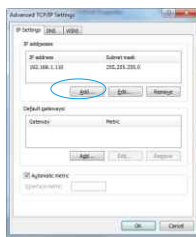
1. Install the Madrix 3 software in the computer, the icon on the desktop :  MADRIX 3
2. Use the equipped adapter to power ArtNet control system
3. Connect ArtNet control system to computer via the cable.
4. IP Setting: This control system is compatible with random network segment. According to the ArtNet protocol, 2.X.X.X or 10.X.X.X can be added in the computer [X means arbitrary value], methods as below:



- 4.1 Open the Network, click "Properties" button of the TCP/IPv4 protocol.



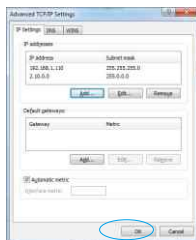
- 4.2 Click "Advanced".



- 4.3 Click "Add".



- 4.4 Add the IP address 2.X.X.X or 10.X.X.X (X could be arbitrary value).



- 4.5 Interface of adding successful, click "OK" and exit.

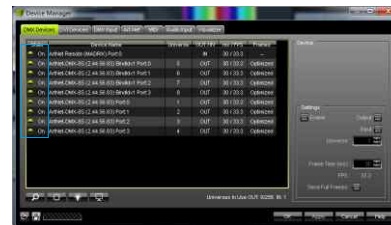
5. Open Madrix 3 software, choose "preferences" > "device manager" from menu.



6. In "device manager" dialog, choose "ArtNet" tab, tick "enable" and click search . Artnet-SPI-4 / Artnet-SPI-8 will be searched.



7. Click the tab of "DMX devices", set port status to "ON" if connected successfully. Now, you can use computer to control lamps via ArtNet-SPI-4 / ArtNet-SPI-8.



LCD Screen Interface Diagram

Key function



Main display interface

M/S/Mt/St

- M Playing sequently from master controller.
- S Playing sequently from slave controller.
- Mt Timing playback from master controller.
- St Timing playback from slave controller.

Press "MENU" key to enter main menu.
Press "BACK" to playback/pause.

Main menu

Press "UP" key or "DOWN" key" to switch item.
Press MENU" key to enter submenu.

Clock

Clock		
Year	Mon	Day
2018	03	05
Hour	Min	Sec
14	09	33

Press "MENU" key to switch item.
Press "UP" key or "DOWN" key" to adjust parameter.

Setting

Setting	
Chip type	Chip: TM1809
RGB order	Order: GRB
Brightness of load lamp	Bright: 254

Press "MENU" key to switch item.
Press "UP" key or "DOWN" key to adjust parameter.

Tool

Tool	
Screensaver	Screen: Never
Screen contrast	Contrast: 60%
Screen lock	Lock: OFF

Press "MENU" key to switch item.
Press "UP" key or "DOWN" key to adjust parameter.

Timer

Timer	
01. 2019/06/11~	<input type="checkbox"/>
02. Unknown~	<input type="checkbox"/>
03. Unknown~	<input type="checkbox"/>
04. Unknown~	<input type="checkbox"/>
05. Unknown~	<input type="checkbox"/>

Press "MENU" key to switch item, Press "DOWN" key to enter submenu.
Press "UP" key start or stop the timer, tick ✓ in the box means start.
(only effective for timer which has been set).

Data submenu

Dataweek	
Sta:2018/03/05 14:43	
End:2018/03/05 14:43	↓
01.201707151556	<input type="checkbox"/>
02.201707151656	<input type="checkbox"/>
03.201712201556	<input type="checkbox"/>

File name

Week submenu

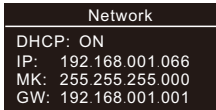
Dateweek						
Mo	Tu	We	Th	Fr	Sa	Su
01.201707151556	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
02.201707151656	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
03.201712201556	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

File name

Press "MENU" key to switch item.
Press "UP" key or "DOWN" key to select file, tick ✓ in the box means select it.

Network

DHCP ON: dynamic IP
DHCP OFF:static IP



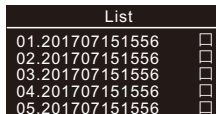
Press "MENU" key to switch item.

Press "UP" key or "DOWN" key to adjust parameter.

* Dynamic IP's parameters are automatically updated and cannot be changed manually.

List

File name—



Press "MENU" key to switch item.

Press "UP" key or "DOWN" key to tick ✓ in the box (means select this file).

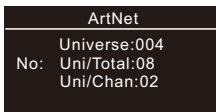
Record



Press "UP" key or "DOWN" key to switch .
(pause record)

ArtNet

ArtNet space parameters.



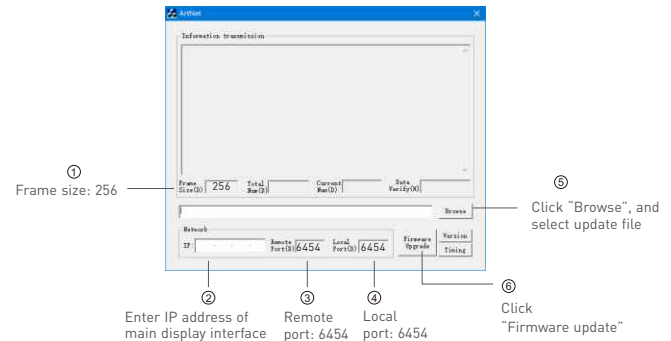
Press "UP" key or "DOWN" key to adjust parameters.

Firmware Update

Please connect ArtNet control system to computer, and copy update file to computer.

Method 1. Firmware update with software.

Open software in your computer, enter follow interface and update firmware.



Method 2. Firmware update with explorer.

Open explorer, enter "http://192.168.1.14" in the address bar, "login" interface appeared, enter user name "LTECH", password "123456", then click "login" button.



Enter the following interface, click "browse" button to select the update file, then click "upload" button to update, if "update done!" appeared means update successful.



* For firmware update, please contact us for update software and documents.