

Artnet-SPI-1 Artnet-SPI Converter



Artnet-SPI converter is the Ethernet Control System based on the Artnet protocol, used to convert the Artnet network data package into SPI(TTL) digital signal, adopting high-speed ARM processor, stable and reliable working. Following Artnet standard protocol, it supports RJ45 network interface and green terminal output interface.

Artnet-SPI-1 can control LED lighting with compatible driving IC, such as TM1804/1809, D705, P9813, LPD6803/1101, UCS1903/1909/1912/2903/2909/2912/6909/6912, WS2811/2812/2801/2803, etc.

It is compatible with all the effects lighting control software which support Artnet protocol, widely used in the LED dot matrix and the stage lighting.

1. Technical Specs

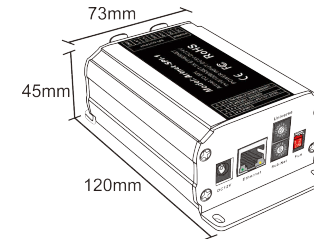
Artnet-SPI-1

• Power Input:	5-24Vdc (with a power adaptor)	• IP:	Indoor use only
• Input Signal:	Artnet	• Working Temp.:	-30°C~65°C
• Output Signal:	SPI(TTL) digital signal	• Dimension:	L120×W73×H45mm
• Current:	30mA@12Vdc	• Package Size:	L198×W78×H50mm
• Network Connection:	RJ45	• Weight (G.W):	360g
• Isolation Ethernet Port:	Total Isolation		
• Isolation Power Input:	Total Isolation		

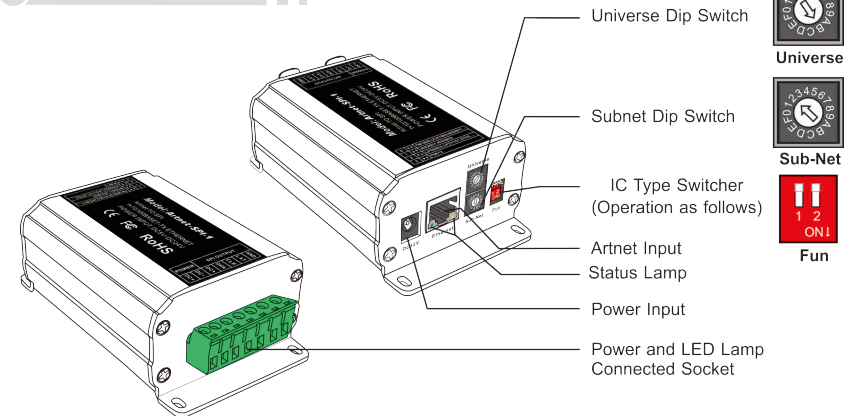
2. Performance Features

- 2.1 Based on Artnet protocol network data communication, accept network DMX data, output one set SPI data.
- 2.2 IP address is bound to Subnet, no need to reset, plug and play.
- 2.3 Manage Artnet on broadcast mode or unicast mode.
- 2.4 Compatible with the light software based on Artnet Protocol, control LED lighting.
- 2.5 Connect up to 256 DMX Universes to one network.
- 2.6 10/100Mb/s Ethernet Port.

3. Product Dimension:



4. Interface Instruction:



Switching IC type operation instruction:

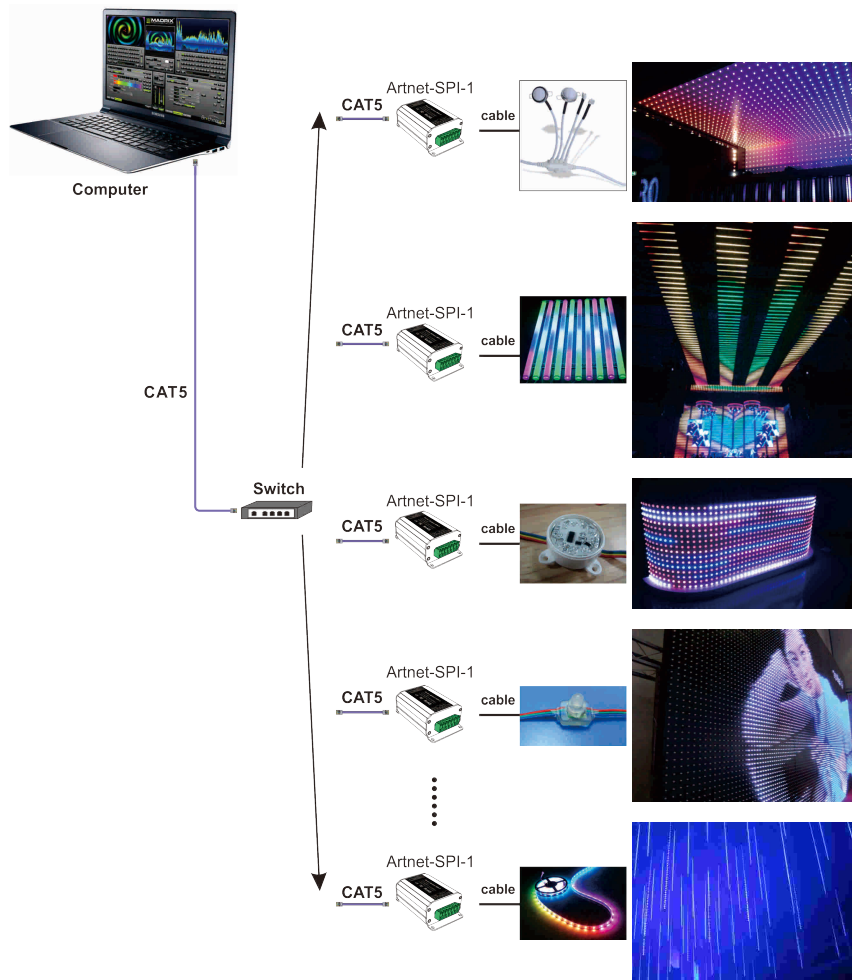
1	2	Diagrams	IC Type
OFF	OFF		TM1804/1809, UCS1903/1909/1912/2903/2909/2912, WS2811/2812
OFF	ON		LPD6803/1101, D705, UCS6909/6912
ON	OFF		WS2801, WS2803
ON	ON		P9813

Address Setting Instruction:

Universe/Sub-Net Dip Switch	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Value	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Calculating method: Group address= Subnet ×16 + Universe, IP Address = 2.85.101.**Group Address**
 For example: Subnet: 2, Universe: B(11), Group Address = 2×16 + 11 = 43, so the DMX output group address is 43, corresponding IP address is 2.85.101.43.

5. Conjunction Diagram:



6. Attention:

- 6.1 The product shall be installed and serviced by the qualified person.
- 6.2 This product is non-waterproof. Please avoid the sun and rain. When installed outdoors, please ensure it is mounted in a water proof enclosure.
- 6.3 Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.
- 6.4 Please check if the output voltage of the LED power supply used comply with the working voltage of the product.
- 6.5 Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current. Please also ensure that the cable is secured tightly in the connector.
- 6.6 Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.
- 6.7 If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.

7. Warranty Agreement:

- 7.1 We provide lifelong technical assistance with this product:
 - A 5-year warranty is given from the date of purchase. The warranty is for free repair or replacement if cover manufacturing faults only.
 - For faults beyond the 5-year warranty, we reserve the right to charge for time and parts.
- 7.2 Warranty exclusions below:
 - Any man-made damages caused from improper operation, or connecting to excess voltage and overloading.
 - The product appears to have excessive physical damage.
 - Damage due to natural disasters and force majeure.
 - Warranty label, fragile label and unique barcode label have been damaged.
 - The product has been replaced by a brand new product.
- 7.3 Repair or replacement as provided under this warranty is the exclusive remedy to the customer. We shall not be liable for any incidental or consequential damages for breach of any stipulation in this warranty.
- 7.4 Any amendment or adjustment to this warranty must be approved in writing by our company only.

★This manual only applies to this model. We reserve the right to make changes without prior notice.