



General

Product Type	Amplifier
Length (mm)	270
Width (mm)	90
Height (mm)	46
Housing Color	Matte Black
Housing Material	Metal
Mounting	Surface mounted
Weight (g)	620
Wire Strip Length	5mm
Wire Type	2.5mm2

Electronics

Input Domain	DC
Input Voltage	12 V DC
Power Supply	External
LED Outputs	3

Lighting

Color Range	RGB
-------------	-----

Control

Output Signal	DMX
Control	DMX
Number of Channels	3

Protection

Overload	Yes
----------	-----

Environmental

Operating Temperature	-30 ~ +65 °C
Ingress Protection	IP44

CE IP44 5^{year} warranty

Disclaimer

Due to the technical evolution and improvement of our products, the data provided in this document may be updated on a regular basis, and as such, confirmation of this information is strongly recommended prior to the order process. OneEightyOne is not responsible for any discrepancies in this document following changes in our products. We reserve the right to make technical changes to our products and to change information, at its sole discretion, without notice.

LT-123 DMX(485) Signal Amplifier



LT-123 is dedicated to amplify, distribute, and insulate the signal that comes from the lighting system equipment when it is connected to the bus of DMX512 (or RS-485).

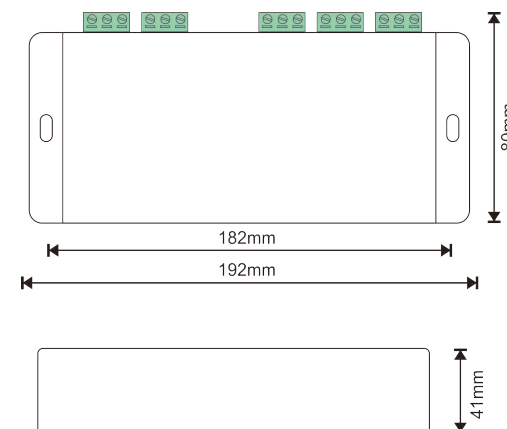
1. It's specially designed for signal shaping amplification for DMX512 (485) signal which attenuated after a long-distance transmission, realize extending the signal transmission distance;
2. Need to use the multiple signals expansion output control, increase DMX (485) signal amplifier to distribute multi-channel control.
3. 1 channel input, 3 channels distributed output, there is a independently photoelectricity insulation of >3KV between input and output terminals, and output terminals among 3 channels, so as to avoid the expensive equipment such as light, 485 communications equipment, DMX driver, precise digital lighting controller, being burnt by the possible high voltage which caused from the wrong wire connection and a broken equipment, also can avoid the signal interference between each DMX equipment, to assure it works safely.

1. Product Parameter:

LT-123

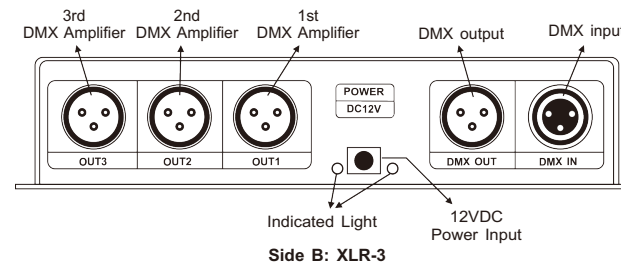
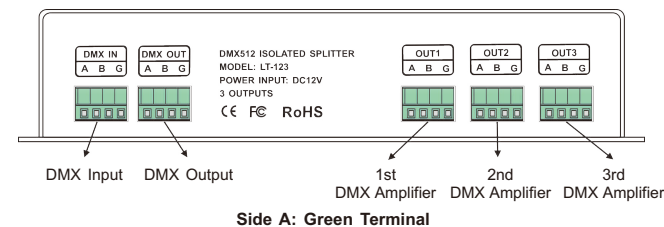
- Input Voltage: 12VDC(with an adapter to convert 100-240VAC to 12VDC)
- Input DMX Signal: 1CH DMX (485) Signal Input (photoelectricity isolation>3kv)
- Output DMX Signal: 3CH DMX (485) Signal Output (photoelectricity isolation>3kv)
- DMX512 Socket: XLR-3, Green Terminal
- Working Temperature: -30°C~65°C
- Dimension: L192×W80×H41mm
- Package Size: L270×W90×H46mm
- Weight(G.W.): 620g

2. Product Size:



3. Configuration Diagram:

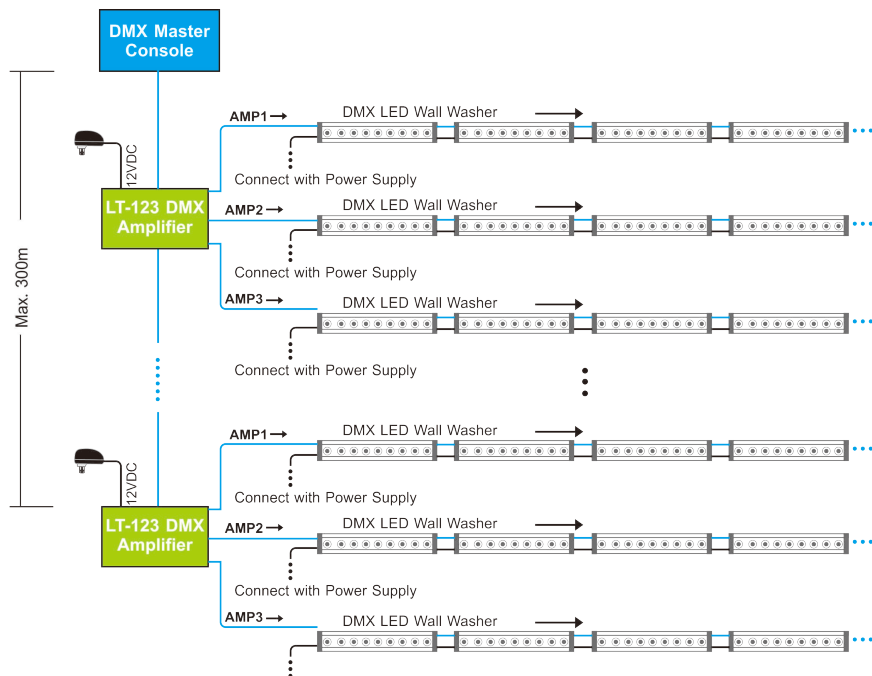
Provides two signal terminals to select:



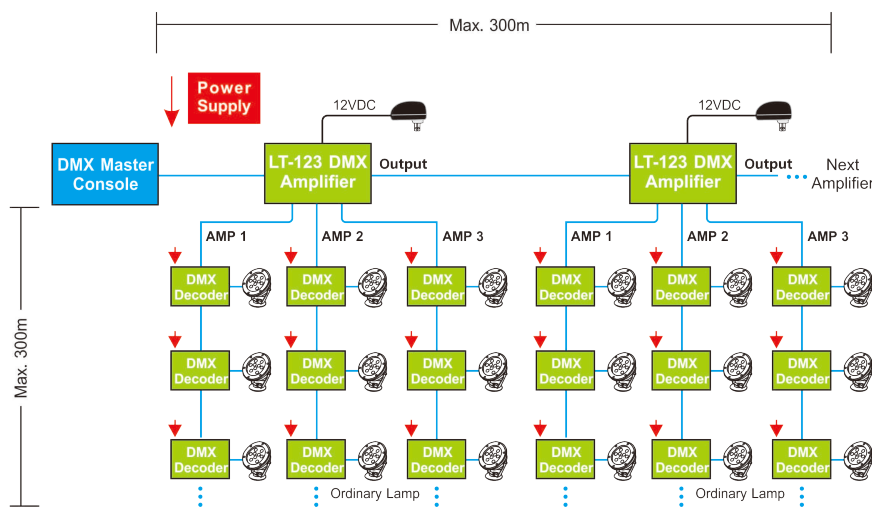
4. Wiring Diagram:

DMX (485) signal amplifier can isolate, amplify and distribute the signal to all kinds of DMX (485) control equipment, see the example for the DMX Lighting.

4.1. Example: Signal distribution for master console & DMX lamps:



4.2. Example: Signal distribution for master console & decoder & DMX lamps:



4.3 Example: Connection for signal amplifier in long distance:

