DMX Splitter/Signal Amplifier

FC CE RoHS warranty 5 years ISO9001:2008

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).
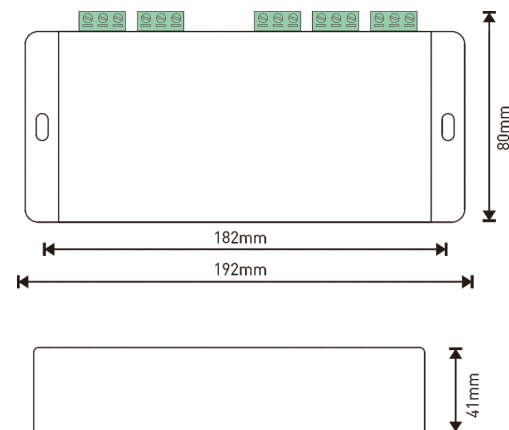
1. It's specially designed for signal shaping amplification for DMX512 (485) signal which attenuated after a long-distance transmission, realize extending the signal transmission distance;

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.
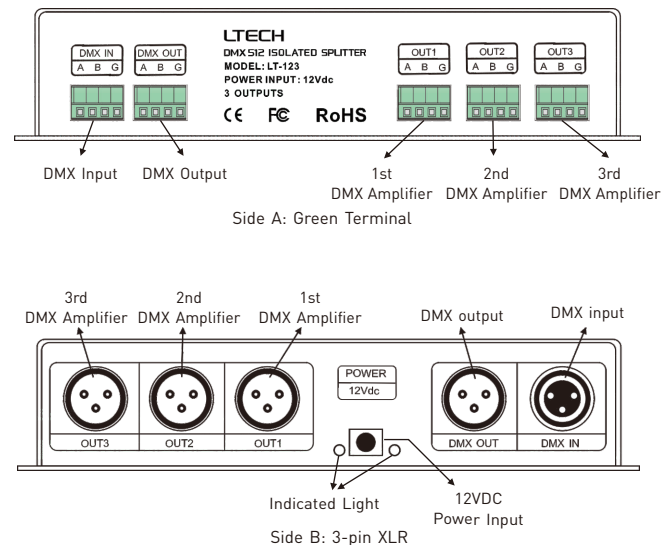
1. Product Parameter:

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:	3-pin XLR, Green Terminal
Working Temperature:	-30℃~65℃
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:

Side A: Green Terminal

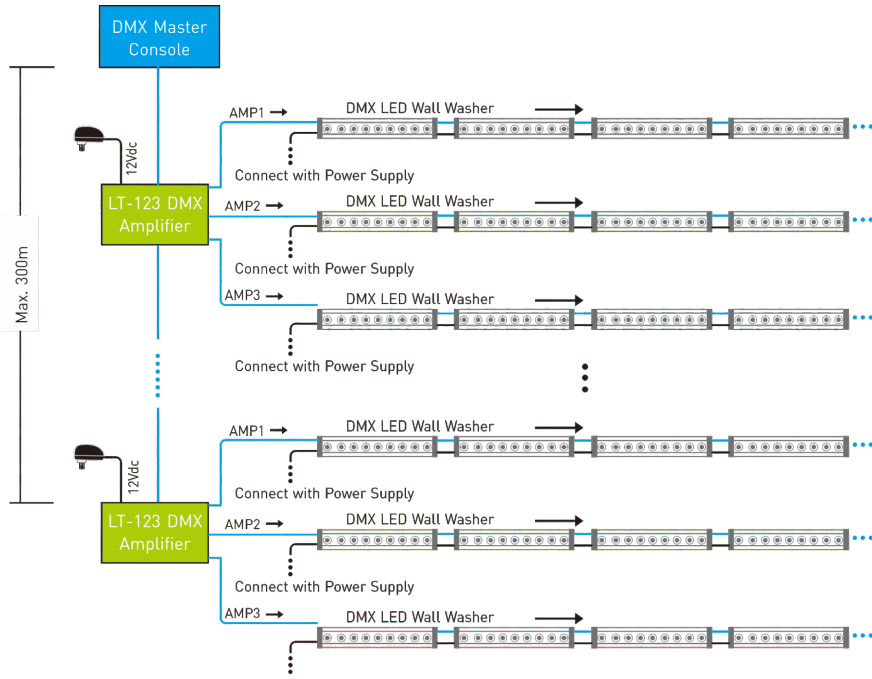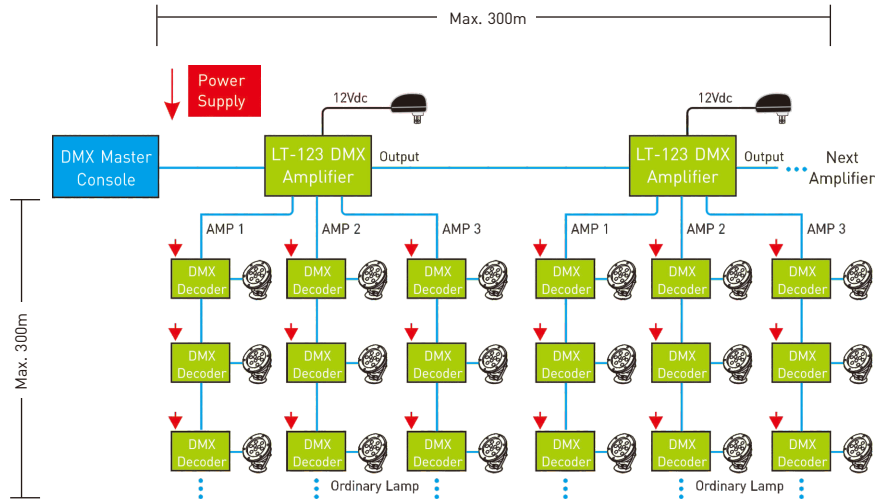Side B: 3-pin XLR

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:

DMX Master Console

12Vdc

LT-123 DMX Amplifier

Max. 300m

AMP1 → DMX LED Wall Washer

Connect with Power Supply

AMP2 → DMX LED Wall Washer

Connect with Power Supply

AMP3 → DMX LED Wall Washer

Connect with Power Supply

12Vdc

LT-123 DMX Amplifier

AMP1 → DMX LED Wall Washer

Connect with Power Supply

AMP2 → DMX LED Wall Washer

Connect with Power Supply

AMP3 → DMX LED Wall Washer

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

Max. 300m

Power Supply

12Vdc

12Vdc

DMX Master Console

LT-123 DMX Amplifier Output

LT-123 DMX Amplifier Output

Next Amplifier

Max. 300m

AMP 1 AMP 2 AMP 3 AMP 1 AMP 2 AMP 3

DMX Decoder (×18)

Ordinary Lamp

Ordinary Lamp

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4.3 Example: Connection for signal amplifier in long distance:

Power Supply

DMX Master Console

Terminal Resistor

1/4W,120Ω

A B G

Max. 300m

12Vdc

AMP 1

LT-123 DMX Amplifier

AMP 2

AMP 3

DMX Lamp

Input   Amp   Amp 2   Amp 3

Amp 3 Amp 1
Amp 2   Input

Max. 300m

DMX Lamp

12Vdc

AMP 1

LT-123 DMX Amplifier

AMP 2

AMP 3

Next Amplifier

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