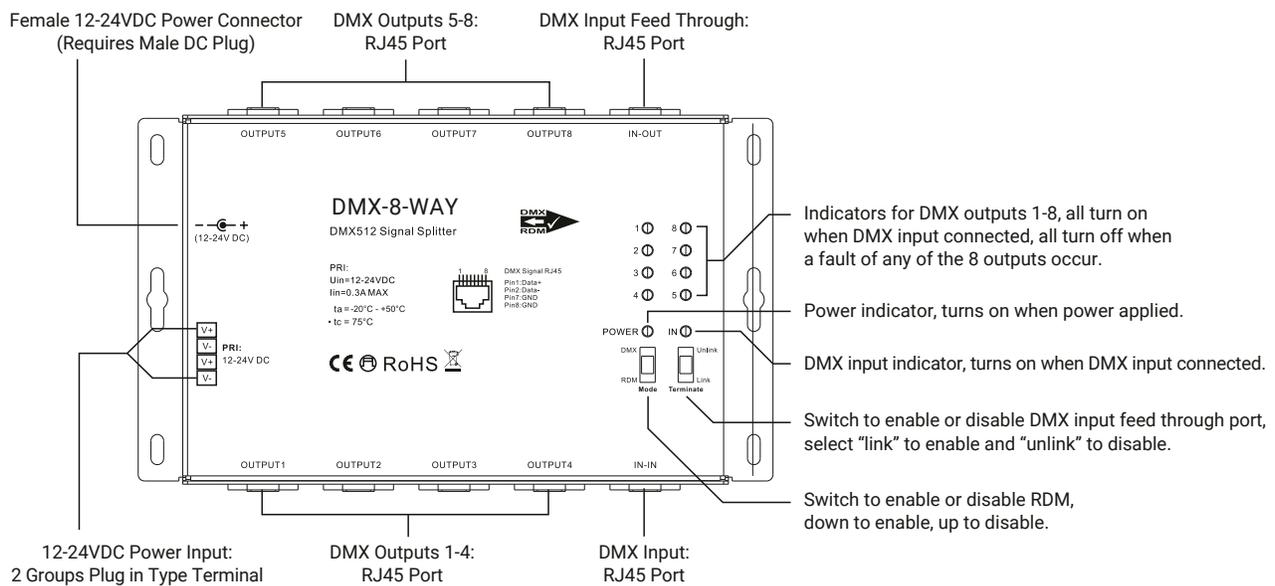# DMX/RDM 8-Way Splitter

Product Data Sheet

Product Specifications

Product SKU	Input Voltage	Protocol	Working Temperature	Size	IP Rating
DMX-8-WAY	12-24V Constant Voltage DC	DMX512	-20°C to 50°C (-4°F to 122°F)	7.75" x 4.5" x 1.5" (197 mm x 114.3 mm x 38 mm)	IP20 (Indoor/ Dry Location Only)

Mechanical Diagram

Female 12-24VDC Power Connector (Requires Male DC Plug)

DMX Outputs 5-8: RJ45 Port

DMX Input Feed Through: RJ45 Port

Indicators for DMX outputs 1-8, all turn on when DMX input connected, all turn off when a fault of any of the 8 outputs occur.

Power indicator, turns on when power applied.

DMX input indicator, turns on when DMX input connected.

Switch to enable or disable DMX input feed through port, select "link" to enable and "unlink" to disable.

Switch to enable or disable RDM, down to enable, up to disable.

12-24VDC Power Input: 2 Groups Plug in Type Terminal

DMX Outputs 1-4: RJ45 Port

DMX Input: RJ45 Port

Key Features

- 8-way DMX/RDM splitter.
- Eight isolated RJ45 outputs.
- Each output can support up to 32 separate devices, for 256 devices total.
- Eliminates cable distance and device number limitations.
- RJ45 input, and feed-through RJ45 output for DMX chains.
- Compatible with DMX512 (1990) protocols.
- Compatible with RDM protocols (bi-directional communication function allowing for real time remote monitoring).
- LED indicators for confirmation of proper functioning.

Safety Instructions

- This device is intended for indoor use only.

- To prevent fire or shock hazard, DO NOT expose the device to water or high humidity levels.

- Do NOT install this device while it is connected to power.

Wiring and Operation
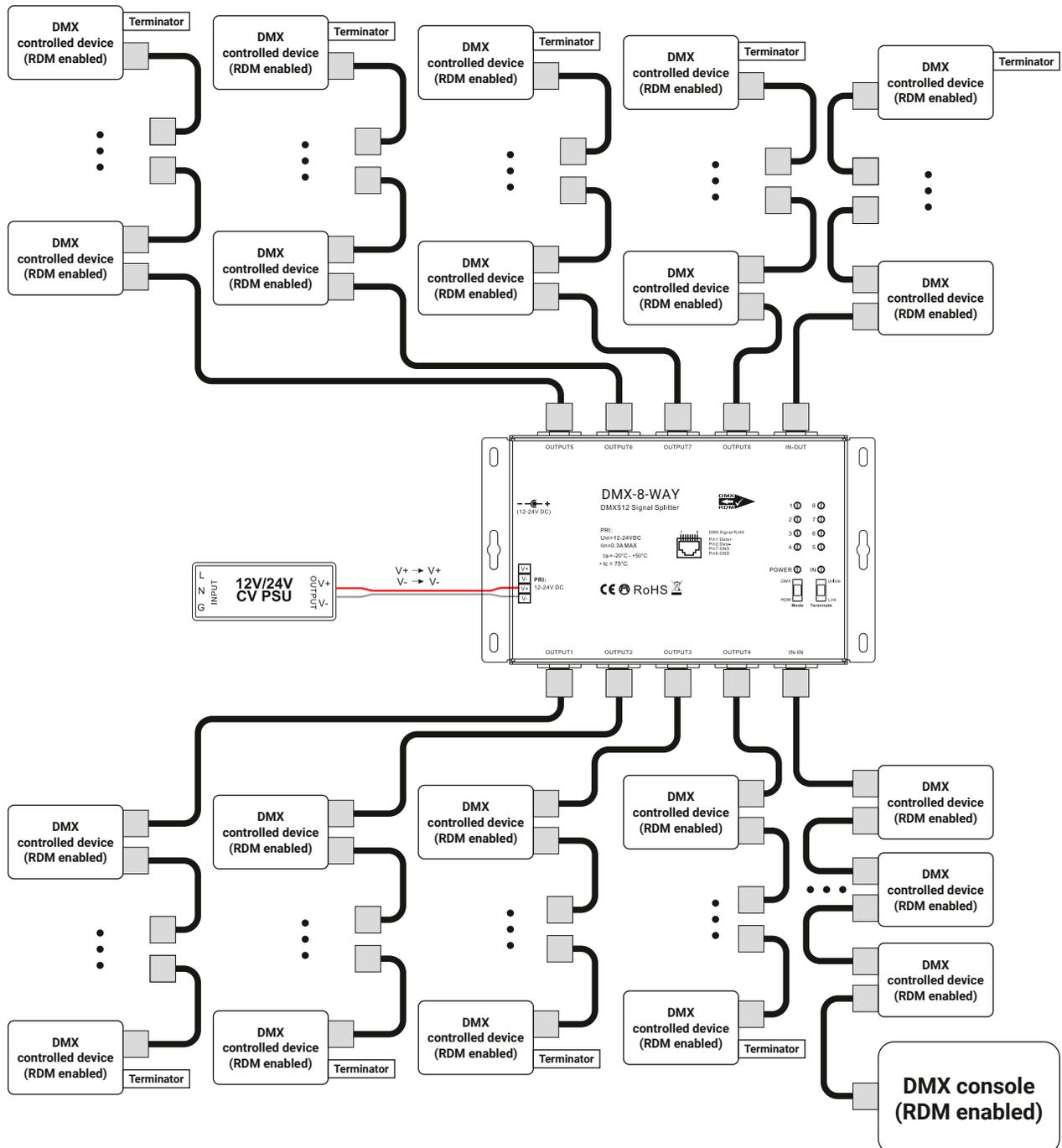
1. Confirm that the power supply's output range is between 12-24V DC and that the power supply is not yet connected at the AC power at this time. This power supply will power the splitter.

2. Connect the low voltage wiring of the power supply using the plug-in or hardwired terminals on the splitter.

3. Identify the DMX Input port (IN/IN) and use CAT5 wire to connect the splitter to the DMX console or any other DMX source.
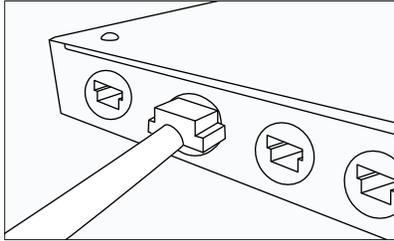

4. Use the eight output ports on your splitter to connect to any remote DMX devices, RDM responders, or any other DMX equipment on the receiving end of the signal using CAT5 cable to make these connections.
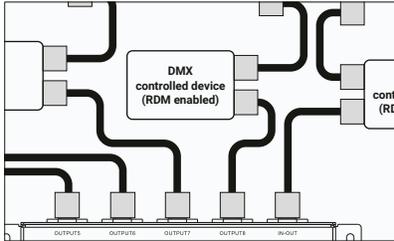
5. You can connect one DMX chain to each DMX Output on the Splitter. Make sure to connect the output of the first DMX device to the input of the second, and extend this set-up until all devices on the chain are connected.
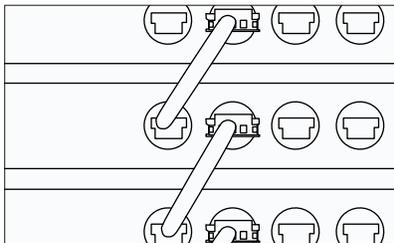

6. Use the DMX input feed-through port (IN/OUT) to use the splitter in the middle of an existing DMX chain. Simply flip the UNLINK/LINK switch to UNLINK to enable the feed-through port.
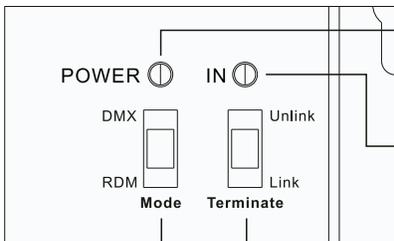
7. Please make sure to put a terminator on the last device of each DMX chain installed off of your splitter.

8. Power up the power supply once your installation connections are all completed.

9. Follow the instructions on your other DMX equipment for proper installation.

10. All DMX fixtures must be addressed for correct operation. This can be done using the DMX decoders, or the main DMX console (using RDM functionalities). To enable RDM functionalities on your DMX Splitter, turn on the RDM mode using the switch on your splitter.

POWER

DMX

RDM

Mode
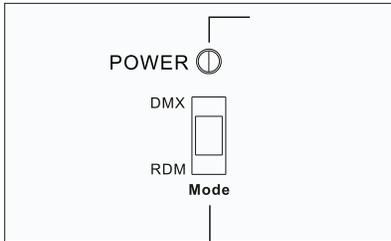
Troubleshooting

If your setup is not working properly:

- Make sure that the power supply is properly plugged in.
- Make sure that the splitter is properly plugged in.
- Make sure that the DMX addresses are correct.
- Unplug and change the CAT5 cable being used, if damaged.

Warranty Information

Warranty

Limited Warranty: This product has a 5 year limited warranty from the date of shipment. This warranty only includes the main product outlined in this specification sheet and does not include the additional accessories that are used as a reference. Complete warranty details for fixtures and additional accessories are available at: https://www.flexfireleds.com/warranties/ within the Policies section. For warranty related questions please contact the product support team at support@flexfireleds.com.

Consumer's Acknowledgment

Flexfire LEDs, Inc. stands behind its products when they are used properly and according to our specifications. When you purchase our products, you are agreeing to the terms and conditions outlined in our warranty section. We try our best to make recommendations, but the burden of proper installation, design, and maintenance relies on the purchaser. This limited warranty does not include product failures that are the result of: Not using a voltage regulated power supply to connect the LED product or controls; Connecting LED products to the wrong output voltage; Improper connection of power supplies, LED products, or controls; Connecting LED products or controls directly to any AC power source if they are stated for DC only input; Connecting power supplies backwards to an AC power source; Products used in an inappropriate location or in environmental conditions (temperature, humidity, moisture, etc.) outside the normal specified range; Water damage to products not specifically sold as waterproof products; Electrical power surges and spikes; Damage from hail, flooding, tornado, fire, wind, earthquake, lightning, electrical storm, or any other natural disasters or "force majeure" incidences; Damage caused by a vehicle or other accident; Damage caused when transporting the item; Damage to any products that were modified by the user, used for purposes other than as intended or directed, or connected to LED systems or components not purchased from Flexfire LEDs; Products that have been subjected to misuse, mishandling, misapplication or accident. Products used in connection with any components, devices or systems other than those explicitly approved as compatible with Company's products and listed on Company's website. Excessive wear and tear and/or physical or accidental abuse, loss, or theft. Improper repairs or warranty services performed by someone other than Flexfire LEDs will void this warranty.

Contact Information