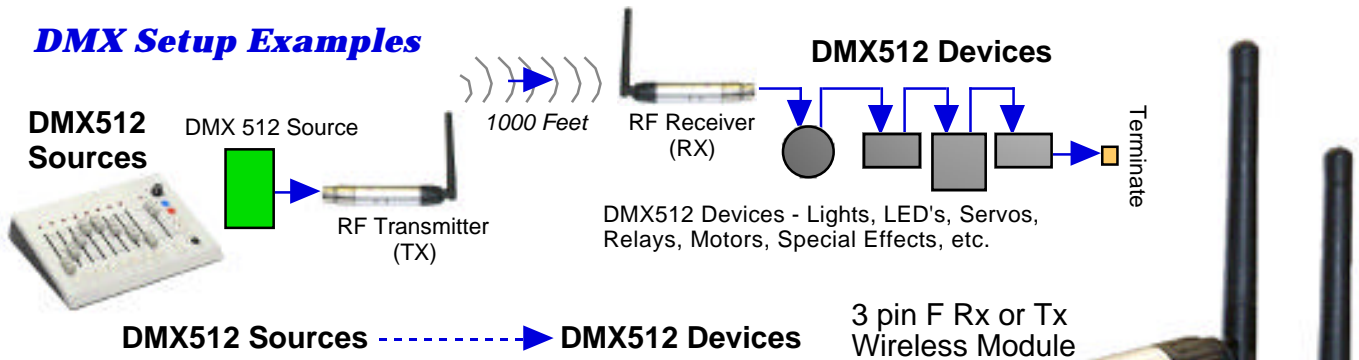


## DMX Wireless System Transmitter (TX) / Receiver (RX)

### Overview:

Wireless Transmitter (Tx) or Receiver (Rx) modules capable of transmitting a standard DMX512 protocol data stream (generated by console / DMX source) to receiving modules / DMX devices through wireless 2.400 - 2.525 GHz 1,000 foot transmissions. Wireless setup eliminates some of the signal cables required from DMX source to DMX device and allows for transmitting, signal data in real time and reliability to devices which are applied in various applications, environments and remote locations.

### DMX Setup Examples



### Application:

Stage lighting, Event centers, Dance hall, Large performance events, Animatronics, Haunted house entertainment sites, Temporary stage performance, Mobile lighting system, TV station, Conference center, Professional showplace and many other various applications requiring wireless DMX setup.

### Product Features:

- Modules can be setup as Transmitter (TX) or Receiver module (RX)
- Working Frequency Range: 2.400 - 2.525 GHz, with Auto Selection
- Tricolor LED with color code configuration displaying module setup configuration status.
- 126 channels jumping frequency automatically, high anti-jamming ability to ensure works reliability.
- 7- ID code setup group configurations, User can set 7 individual wireless groups without any interference from each other in the same location, network or environments.
- Input voltage: 5-VDC at 500 mA (MIN) (Wall power adapter or optional remote battery operation).
- Wireless communication distance: 400M (1,300 +/- feet) visible distance, (Range depending on environment surrounds and applications design)
- Max transmitting (TX) power rate: 20dBm
- Receiver (RX) sensitive: -94dBm
- XLR connector port: 3pin female or male XLR with DMX512 configuration wiring.
- Working Temp Range -20C ~ + 40C
- Automatic Selection of Transmitter or Receiver configuration on start-up detection.
- One transmitter can control several receivers.



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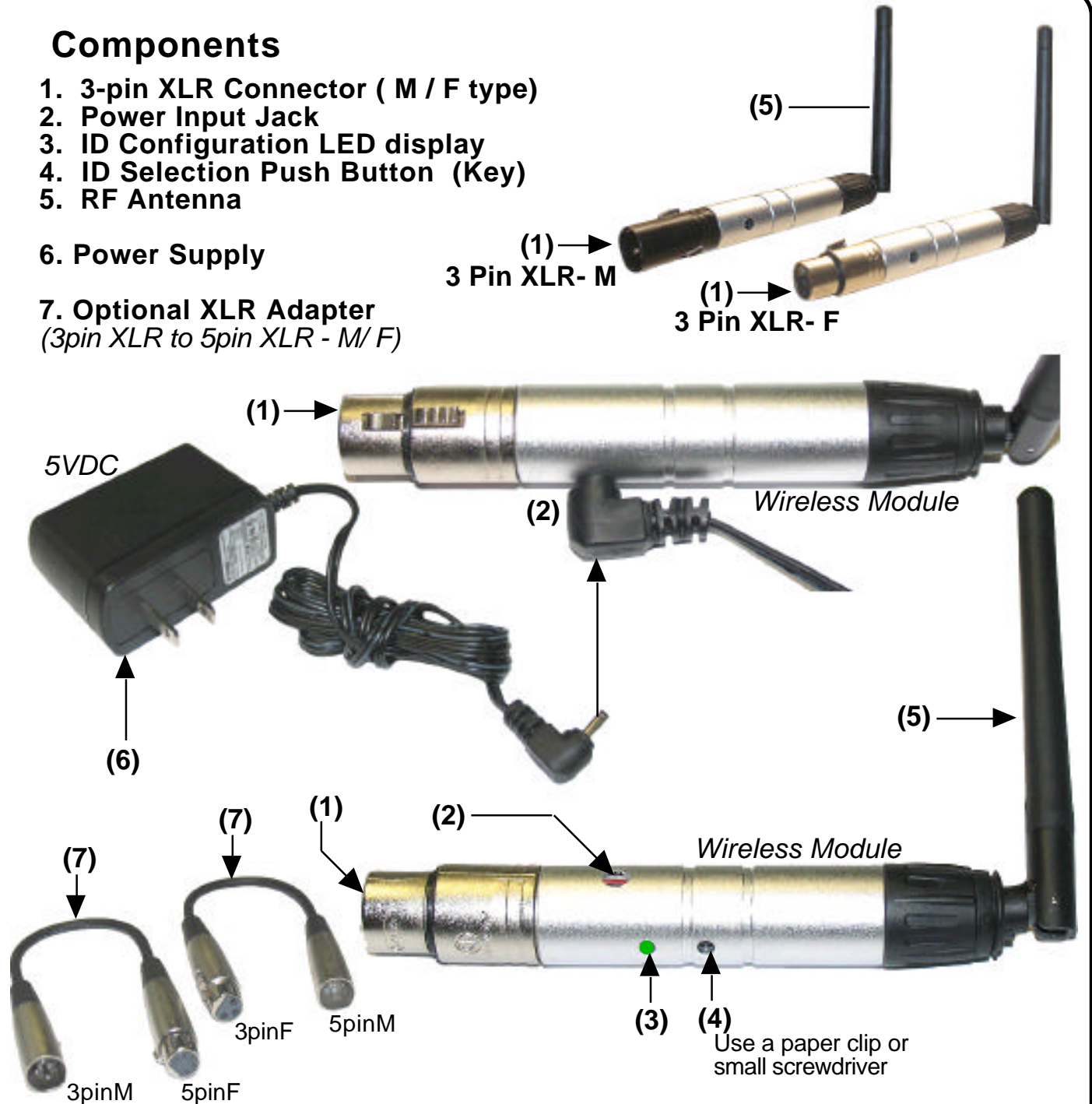
## DMX Wireless System Transmitter (TX) / Receiver (RX)

### Components

1. 3-pin XLR Connector ( M / F type)
2. Power Input Jack
3. ID Configuration LED display
4. ID Selection Push Button (Key)
5. RF Antenna

6. Power Supply

7. Optional XLR Adapter  
(3pin XLR to 5pin XLR - M/ F)



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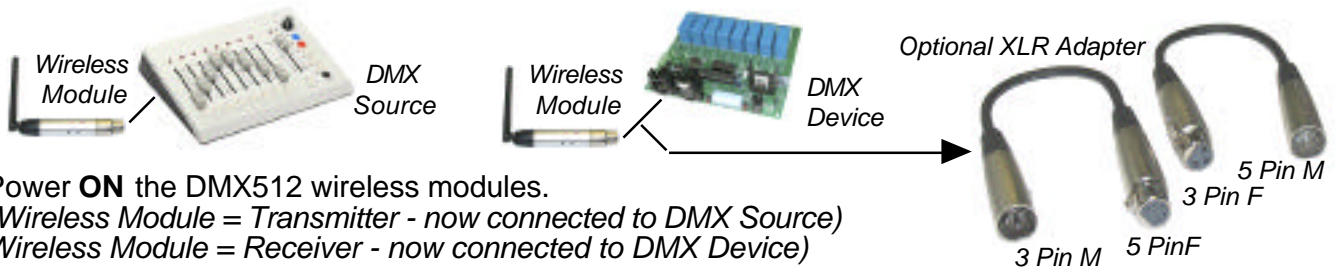
Phone (303) 651-3794  
www.BPEsolutions.com

## DMX Wireless System Transmitter (TX) / Receiver (RX)

### Transmitter / Receiver Module Setup

#### Establishing Communication Protocol:

1. Connect a DMX Wireless module to a DMX Source. (Console, PC-DMX interface, ect)
2. Connect a DMX Wireless module to a DMX device. (Light, Relay, Servo interface, etc)  
*Note: The DMX Input connectors on the wireless modules are 3 pin M or F type XLR's. If you need to connect to a 5 pin M / F - XLR connector, an adapter cable or XLR Jack block is needed to connect from your Lighting Console/ DMX source and DMX Devices / Hardware.*



3. Power **ON** the DMX512 wireless modules.  
(Wireless Module = Transmitter - now connected to DMX Source)  
(Wireless Module = Receiver - now connected to DMX Device)
4. The Transmitter and Receiver modules may start automatically communicating between each other.  
(**Red** Flashing LED on the Transmitter and a **Green** Flashing LED on the Receiver units)  
*The Wireless DMX modules are now ready to send and receive DMX signals.*
5. Press "Key" button on Transmitter and Receiver modules, one time to show current ID setting on each of these wireless modules. LED's will show a color, see **ID LED Color Code** for channels set.

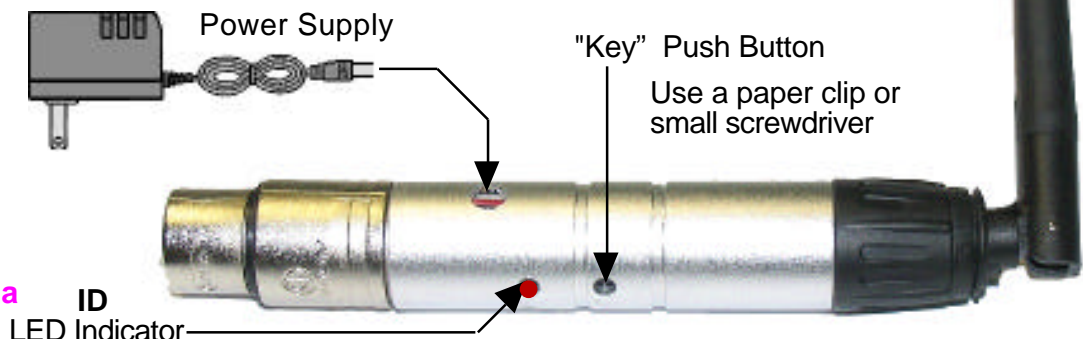
#### LED Operating Indicator Color Status:

- (**Red** LED Flashing = Transmitting signal - Unit ready)
- (**Green** LED Flashing = Receiving signal - Unit read)
- (**Red** LED Solid **ON**, Transmitter and/ or Receiver = No DMX or wireless signals present not ready for communications)

6. If wireless module or modules are not communicating between each other, go to **Changing Communications** and follow instructions for each wireless module to be used.

#### ID LED Color Code

- Ch 1 = **Red**
- Ch 2 = **Green**
- Ch 3 = **Yellow**
- Ch 4 = **Blue**
- Ch 5 = **Magenta**
- Ch 6 = **Cyan**
- Ch 7 = **White**



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## DMX Wireless System Transmitter (TX) / Receiver (RX)

### Changing Communications:

#### Transmitter Module

1. Power on DMX512 wireless modules. (Transmitter and Receiver units)
2. Press "Key" button on Transmitter module, one time to show current ID setting for Transmitter.
3. To set a new ID value for Transmitter, Press Key button again to set a new ID value adding 1 key press each time to move to a different value. Use different ID value if you are using more than one group of wireless devices on different networks. (Every time you press button for new channel LED color will display channel selected, see **ID LED Color Code** for channels).

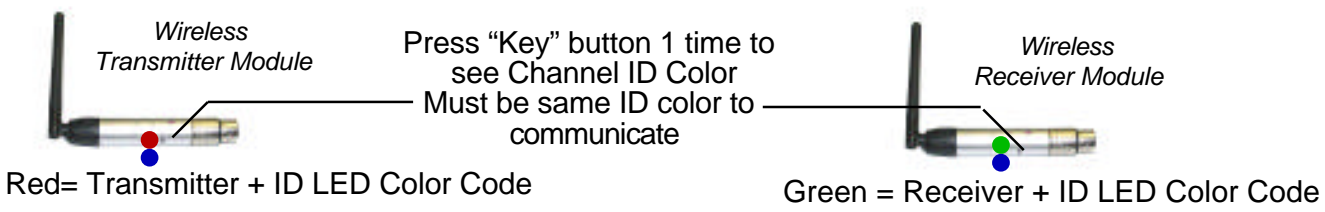
#### 4. Receiver Module.

5. Power on DMX512 wireless modules. (Transmitter and Receiver units)
6. Press "Key" button on Receiver module, one (1) time to show current ID setting for Receiver. To set a new ID value for Receiver, Press Key button again to set a new ID value adding 1 key press each time to move to a different value. Match the same LED color as on the Transmitter module. Use different ID value if you are using more than 1 group of wireless modules / devices on different networks. (Every time you press button for new channel LED color will display channel selected, see **ID LED Color Code** for channels).

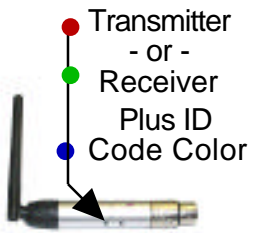
#### 7. Transmitter and Receiver should both show same ID LED color setting.

(Transmitter **Red** LED and Receiver **Green** LED should now be flashing)

8. Communication has been established between the Transmitter and Receiver modules.



### ID LED Color Code and Corresponding Channels:

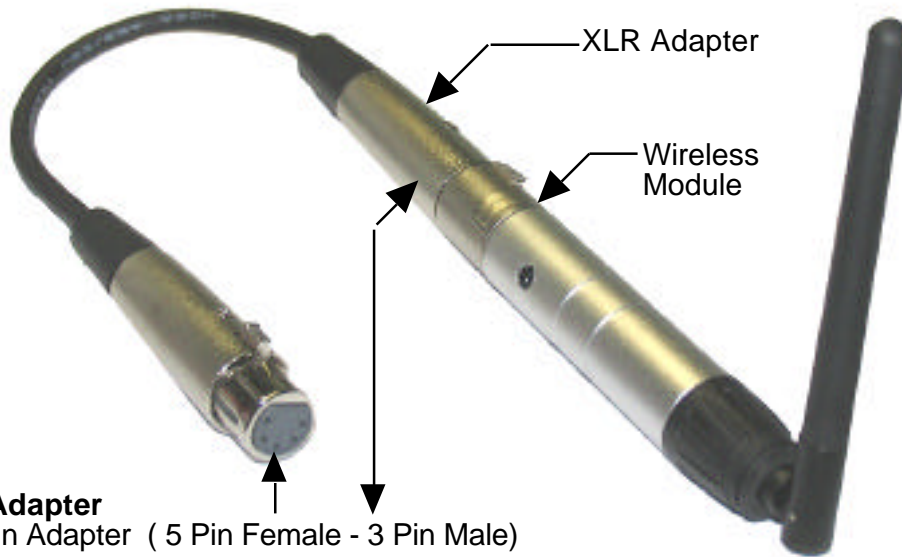


Ch 1 = Red	Red	RGB Colors
Ch 2 = Green	Green	
Ch 3 = Yellow	Red+Green	
Ch 4 = Blue	Blue	
Ch 5 = Magenta	Red+Blue	
Ch 6 = Cyan	Green+Blue	
Ch 7 = White	Red+Green+Blue	

### CAUTION:

Indoor use only. Not for outdoor use or in extreme environmental conditions.  
Working Environment: Temperature -20°C~+45°C, 10%~90%RH

***DMX Wireless System  
Transmitter (TX) / Receiver (RX)***



**Optional XLR Adapter**  
XLR 3 pin to 5 pin Adapter ( 5 Pin Female - 3 Pin Male)

Adjust Wireless module Antenna for best Transmission and Receiving

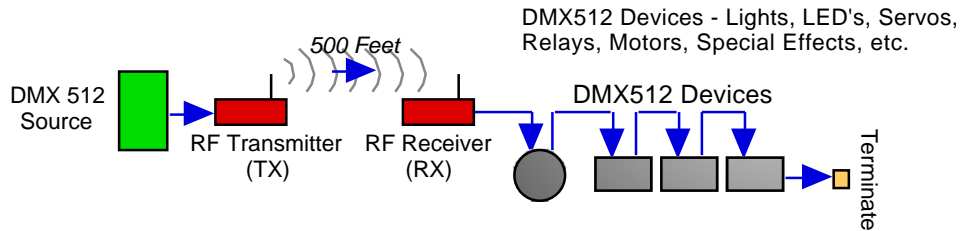


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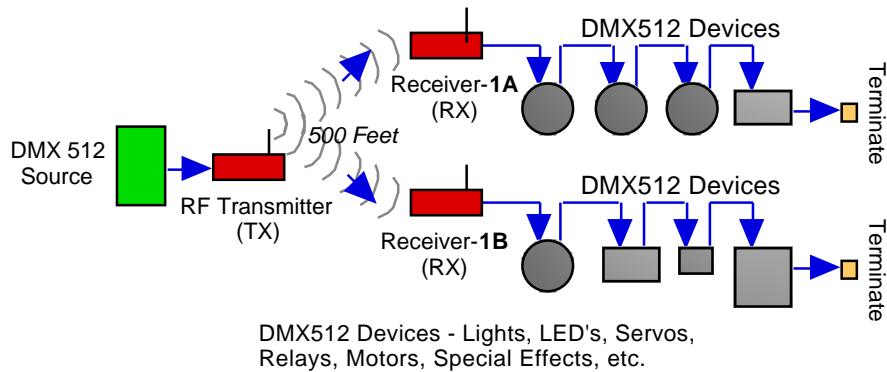
## DMX Wireless System Transmitter (TX) / Receiver (RX)

### DMX Setup Examples

#### DMX Wireless Single Network



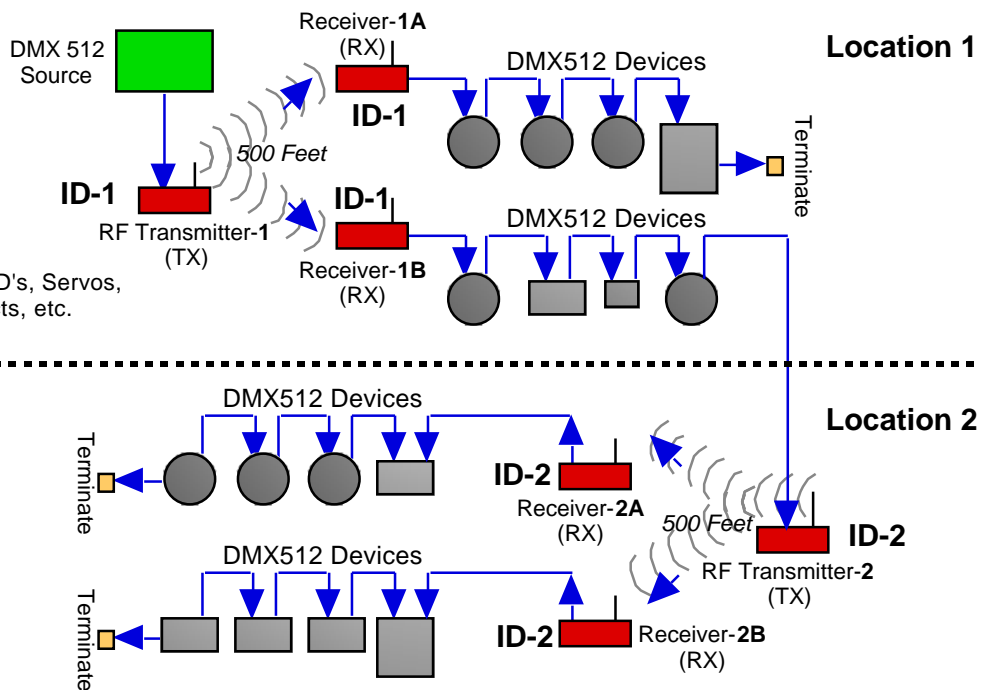
#### DMX Wireless Multiple Network



#### DMX Wireless Multiple Networks



DMX512 Devices - Lights, LED's, Servos, Relays, Motors, Special Effects, etc.



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