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unitech ML-TAXP4 Wireless DMX Adaptor Instruction Manual

Operation Instructions
ML-TAXP4 (ML-TA2)
**WIRELESS DMX (RS485) ADAPTOR**

Contents

Basic description

The ML-TAXP4 is a wireless DMX (RS485) transceiver, supposed to be used with a matching host product which offers a Mini-XLR4 socket that provides for the required connectivity and power supply. The ML-TAXP4 operates with GFSK modulation, and employs 126-channel automatic frequency hopping for best connection quality. Depending on the loading of the 2.4G band in the location of use and an unobstructed line of sight, up to 100m operational distance are possible.
The ML-TAXP4 is a transceiver and automatically switches between receiving and transmitting modes based on detection of an incoming DMX signal. It can be set to one of 7 fixture groups, with such groups being able to operate independently at the same time.

Layout

The ML-TAXP4 is housed in a compact plastic case and has a 4-pin Mini XLR plug on one and, an SMA antenna socket on the side, and a LED with a switch on the user interface.
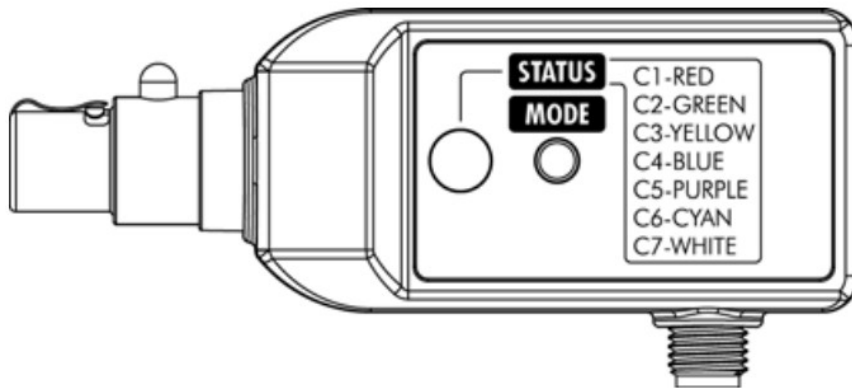

Make sure to only use the supplied SMA-type 2.4G antenna with the ML-TAXP4. Other antennas with different connector or being designed for different frequency bands will not eb suitable.

Setup

The ML-TAXP4 will only work with host products fitted with the compatible XP4 host connector.
The XP4 host connector requires the following pinout and must be able to provide at least 100mA on the 5V DC pin:
Pin 1 = DMX Data +
Pin 2 = DC 5C (min 100mA)
Pin 3 = DMX Data –
Pin 4 = GND
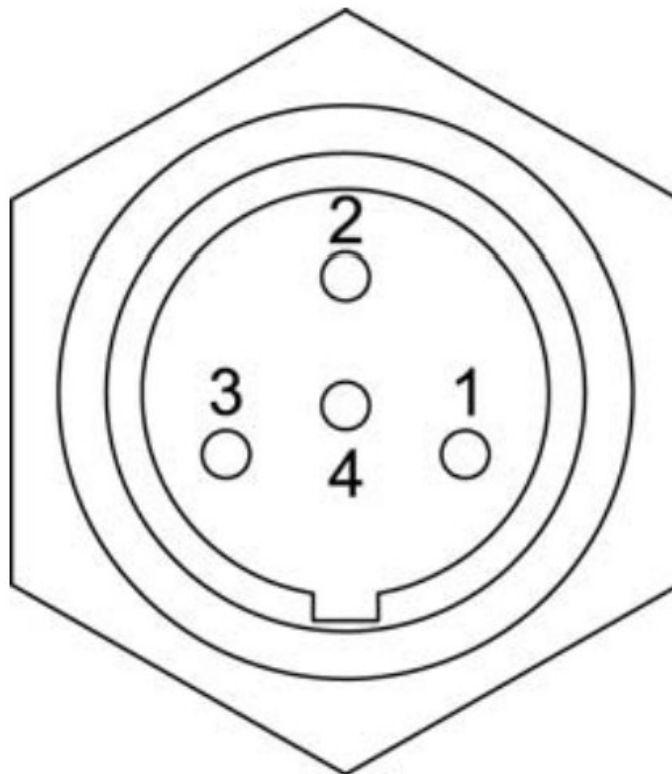
For setup:

- At least two ML-TAXP4 are needed, one to be fitted to a transmitting host and one fitted to a receiving host. In a system, only one transmitting host can exist, but up to 32 receiving hosts are possible.
- Remove the ML-TAXP4 from it package and attach the supplied antenna to the antenna socket.
- Power down the host product. Do not hot-plug the ML-TAXP4.
- Make sure your host product as the matching XP4 socket with correct pinout and power supply capability.

- Insert the ML-TAXP4 into the XP4 connector of the host product until you feel/hear the locking tab latching.
- Power up the host product.
- Locate the host product with the plugged-in ML-TAXP4 so that the antenna of the ML-TAXP4 is unobstructed and wherever possible offers a line of sight between the ML-TAXP4 fitted to the transmitting host and the ML-TAXP4's fitted to the receiving hosts.
- The LED on the ML-TAXP4 will blink red until a connection between transmitting and receiving hosts is established.
- The LED on the ML-TAXP4 will blink green once a connection between transmitting and receiving hosts is established. See LINKING chapter on how to establish a link.
- When powering down, there is no need to remove the ML-TAXP4 from the host product.
- If you intend to remove the ML-TAXP4 from the host product, wait until the host product is powered down. Press the locking tab on the Side of the ML-TAXP4's plug end and pull the ML-TAXP4 out of the host product's socket.

Linking

The ML-TAXP4 requires the unit fitted to the transmitting host and the unit fitted to the receiving host being set to the same fixture group. A fixture group is a group of controlled devices receiving DMX data on a packet of 512 DMX channels (also called a "universe"). The ML-TAXP4 allows to operate up to 7 fixture groups independently.
To set the ML-TAXP4 to a specific fixture group, press the button and cycle through the available options, each indicated by a different color of the control LED:

Group 1	RED
Group 2	GREEN
Group 3	YELLOW
Group 4	BLUE
Group 5	PURPLE
Group 6	CYAN
Group 7	WHITE

FCC Statement

This device complies with part 15 of the FCC Rules, and shall operate under the following conditions:

1. This device shall not cause harmful interference
2. This device must be resistant to any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications made to this device not approved in writing by the manufacturer may void the FCC authorization to operate this device. The manufacturer bears no responsibility for interferences or damages caused by the operation of a device modified without authorization.
The manufacturer of this device is:
Universal Technical Industries Limited
Room 705, 7F., 794-802 Nathan Road
Kowloon, Hong Kong

FCC Warning

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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Documents / Resources

	unitech ML-TAXP4 Wireless DMX Adaptor [pdf] Instruction Manual ML-TAXP4, ML-TAXP4 Wireless DMX Adaptor, Wireless DMX Adaptor, DMX Adaptor, Adaptor

References

- **User Manual**