tiny sparrow TX

Overview

The tiny sparrow TX is a DMX transmitter based on Lumenradio's award winning CRMX technology.
The tiny sparrow TX is very small, insanely lightweight - 42gram - and quite reliable. The small size makes it perfect to fit nearly everywhere.

Three small LEDs give you control and feedback of the unit. The link switch let's you link and unlink receivers.
But nonetheless the tiny sparrow TX runs with the professional Lumenradio CRMX technology with features like:

- Supports DMX512-A (ANSI E1.11)
- Cognitive coexistence – dynamically avoids occupied 2.4GHz frequencies
- DMX fidelity and frame integrity
- DMX frame rate and frame size auto sensing
- Fixed 5 ms end-to-end latency
- Automatic legacy (W-DMX G3, G4 and G4S) compatibility mode

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Dimensions

140mm x 40mm x 20mm

General Functionalty

- PowerIN: 6-36VDC range or USB (5VDC regulated - USB power banks are limited supported[1])
- power consumption: ~250mA (peak)
- temperature working range: -20°C - +40°C
- radio signal range: ~400m, line of sight
- IP rating: IP20
- antenna connector: RP-SMA female
- antenna: RP-SMA male, 2.5dBi
- housing: ABS
- connector: 2pin male Phoenix PTSM - from left to right:
    - Pin 1: VDC +
    - Pin 2: VDC -

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[1] The tiny sparrow series got a very low power consumption, which most USB power banks do not support. Please order the power bank 2.000mAh (order no: 3001)

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- DMX
  - DMX IN
  - supports DMX512-A (ANSI E1.11)
  - 3pin male Phoenix PTSM - from left to right:
    - Pin 1: Ground
    - Pin 2: DMX Data -
    - Pin 3: DMX Data +

Status LED

The Status LED shows four different working conditions:

Transmitter links available receiver:

Transmitter is linked, but no active DMX data:

Transmitter is linked. Receiving DMX data:

Transmitter unlinking receiver:

Linking

1. Ensure the antenna is connected. The unit is powered.
2. On the transmitter, a short press on the link-button.
3. The transmitter will search for any unlinked receiver. The status LED will flash for 10 seconds, normal operation will resume.
4. The status LED will change to a steady on-state afterwards if successfully linked.

UnLinking

1. Unlink one receiver: press and hold the link button on the receiver for more than 3 seconds to unlink. The status LED will go off.
2. Unlink all receivers: On the transmitter, press and hold the link button for more than 3 seconds to unlink all linked receivers.

Troubleshooting

- USB power bank on POWER IN shuts down after a few seconds:
  - The tiny sparrow series got a very low power consumption, which most USB power banks doesn't support.

- No DMX data on DMX fixture:
  - Please check the DMX status LED (green - receiving DMX data).

- Status LED is flashing continuously slow, regardless any function.
  - please contact your local dealer for help.

Need more help? See our support files @ www.radicalwireless.com
Note: subject to change without further notice.

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Approvals & Certificates

CE - Certification of Compliances:

- TiMo RX RDM and TiMo FX RDM comply with the European Union (2014/53/EU), ETSI EN 300 328 V1.8.1 & V1.9.1
- tiny sparrow TX, tiny sparrow RX corresponds to CE & RoHS (2011/65/EU)
- EMC/EMV tested according EN 55022 Class B RE

FCC: - FCC part 15 modular approval
- 15.247&68 Class B

Order numbers:

tiny sparrow TX: 201
tiny sparrow RX: 202
tiny sparrow starter set: 01

DMX cable:
XLR5 male-PTSM 3pol: 301015
XLR3 male-PTSM 3pol: 301013

Power cable:
USB-PTSM 2pol: 30200USB
DC-Stecker-PTSM 2pol: 30200DC
XLR4-PTSM 2pol: 30200XLR4
D-Tap-PTSM 2pol: 30200DTAP
OpenEnd-PTSM 2pol: 302001

Accessories:
USB Power Bank 2.000mAh: 3001
Neopren bag: 3002
Antenna, 50mm, 2.5dBi: 3003