

Overview

The tiny sparrow RX is a DMX / RDM receiver based on Lumenradio's award winning CRMX technology.

The tiny sparrow RX is very small, insanely lightweight - 42gram - and quite reliable. The small size makes it perfect to fit in every corner, small practicals and fixtures or even in the actors dress to control a DMX Dimmer for wearable LEDs.

Four small LEDs give you control and feedback of the unit, as well a link switch which let's you link and unlink the unit from a transmitter. But nonetheless the tiny sparrow RX runs with the professional Lumenradio CRMX technology with features like:

- Supports DMX512-A (ANSI E1.11) and RDM (ANSI E1.20)
- 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



Dimensions

140mm x 40mm x 20mm

General Functionalty

- PowerIN: 6-36VDC range or USB (5VDC regulated - USB power banks are limited supported¹)
- power consumption: ~25mA (peak)
- temperature working range: -20°C - +40°C
- 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 -

- DMX
 - DMX OUT
 - supports DMX512-A (ANSI E1.11) and RDM (ANSI E1.20)
 - 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:

Receiver is not linked to a transmitter:



Receiver is linked, but not connected to a transmitter - no active radio signal:



Receiver is linked and connected to a transmitter. No active DMX data:



Receiver is linked and connected to a transmitter. Receiving DMX data:



Linking

1. Ensure the antenna is connected. The unit is powered and it's not linked already - status LED is off
2. On the transmitter, a short press on the link-button.
3. The transmitter will search for any unlinked receiver. The receivers status LED will flash for 10 seconds, normal operation will resume.
4. The status LED will change to a steady on-state on successfully linked receivers.

UnLinking

1. Unlink one receiver: press and hold the link button for more than 3 seconds to unlink from a transmitter. 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.

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)

Troubleshooting

- „Signal“ LED shows red. Radio signal quality <10% or no signal at all.
 - Solution -> Try to get a better radio signal by avoiding obstacles, like walls. The best radio signal you'll get by line of sight to the transmitter. Tested distance on field: around 400m.
- No DMX data on DMX fixture:
 - Check the DMX LED (green - receiving DMX data), if the transmitter sending correct DMX data, the radio signal strength, or the DMX cable.
- USB power bank on POWER IN shuts down after a few seconds:
 - the tiny sparrow series does not support a USB power bank in generell. The tiny sparrow series got an very low power consumption, which most USB power banks doesn't support.
- 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.

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 female-PTSM 3pol: 302025
 XLR3 female-PTSM 3pol: 302023

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

Contact

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