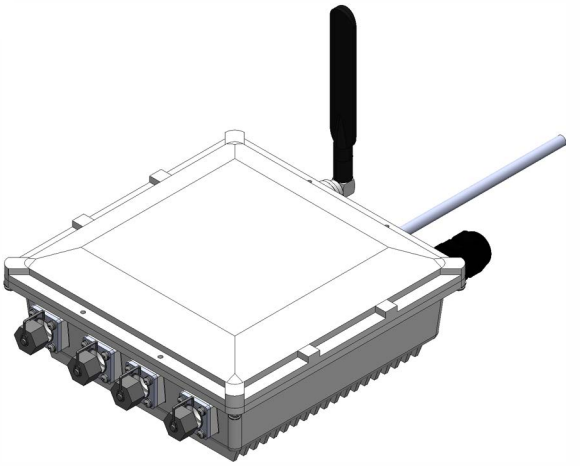
Installation Manual

NanoRouter-X

Exterior Rated NanoRouter



Max Temp: 55°C
Min. Temp: -40°C

INTRODUCTION:

The Boca NANOROUTER-X is an interface module for Boca Flasher's smart lights.

ELECTRICAL SPECIFICATIONS:

1. Input Voltage: 120V / 20A Max
2. Output Ports: 120V / 5A Max each

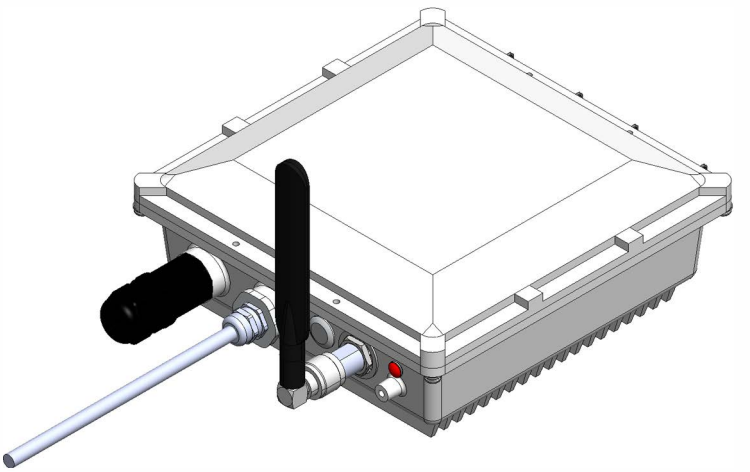
SAFETY REMINDERS:

1. NANOROUTER-X has no On/Off switch
2. Cut off main breaker prior to and during installation
3. Each output port is protected by a 5A breaker

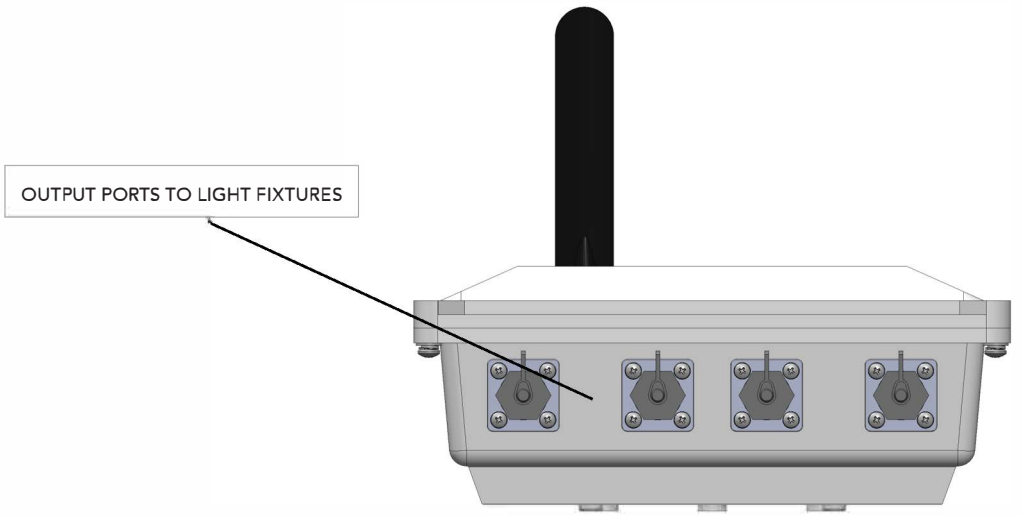
TURN POWER OFF AT CIRCUIT BREAKER BEFORE BEGINNING INSTALLATION!

INCLUDED IN THE PACKAGE:

1. NANOROUTER-X



BACK OF NANOROUTER-X:



FRONT OF NANOROUTER-X:

Status Ring light:

▭ / "Off" denotes a dark LED and ▬ / "On" denotes a lit LED.

5.1.4.1 LED Indication - Receiver:

Continuously Off = not assigned to a transmitter

On 900ms / Off 100ms = assigned to a transmitter, but no DMX present

Continuously On = assigned to a transmitter and DMX present

On 100ms / Off 100ms = link to transmitter lost or linking to transmitter

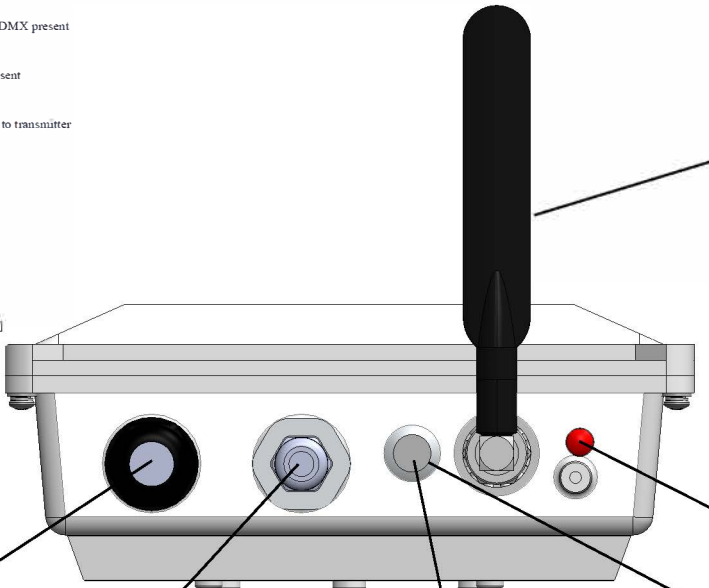
5.1.4.2 LED Indication - Transmitter:

On 900ms / Off 100ms = no DMX present

Continuously On = DMX present

On 100ms / Off 100ms = linking receivers

On 500ms / Off 500ms = unlinking all receivers



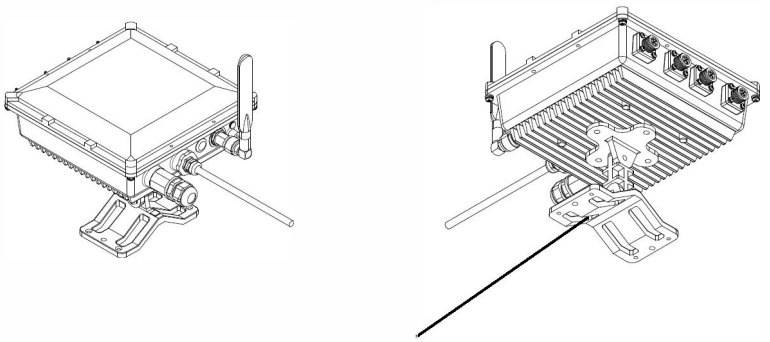
Data Mode Light:
BLUE: Wired DMX
RED: Wireless DMX

Status Ring light:
The Status LED indicates the current status of the wireless connection nd the presence of DMX data

INSTALLATION INSTRUCTIONS

Light fixtures to be connected are securely mounted and electrically connected if receiving wireless DMX.

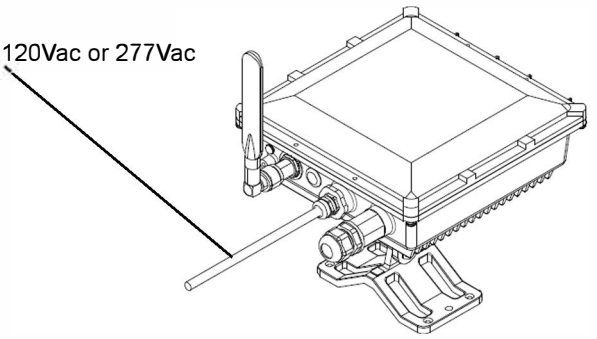
1. If equipped with optional mounting brackets, NANOROUTER-X is mounted to secure surface with screws



Note: Mounting brackets can be configured in a variety of positions.

2. NANOROUTER-X is wired to 120Vac or 277Vac supply via power cable.

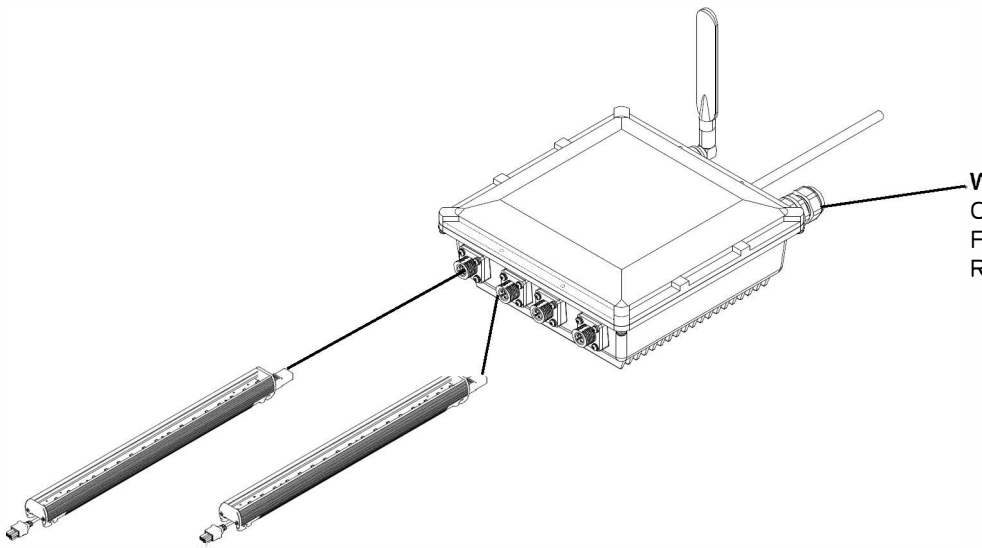
Black - Line
White - Neutral
Green - Ground



CONNECTION CONFIGURATIONS

1. Wired DMX input to wired output (Default Configuration)s

NANOROUTER-X receives DMX input via wired connection and routes signal to wired light fixtures.

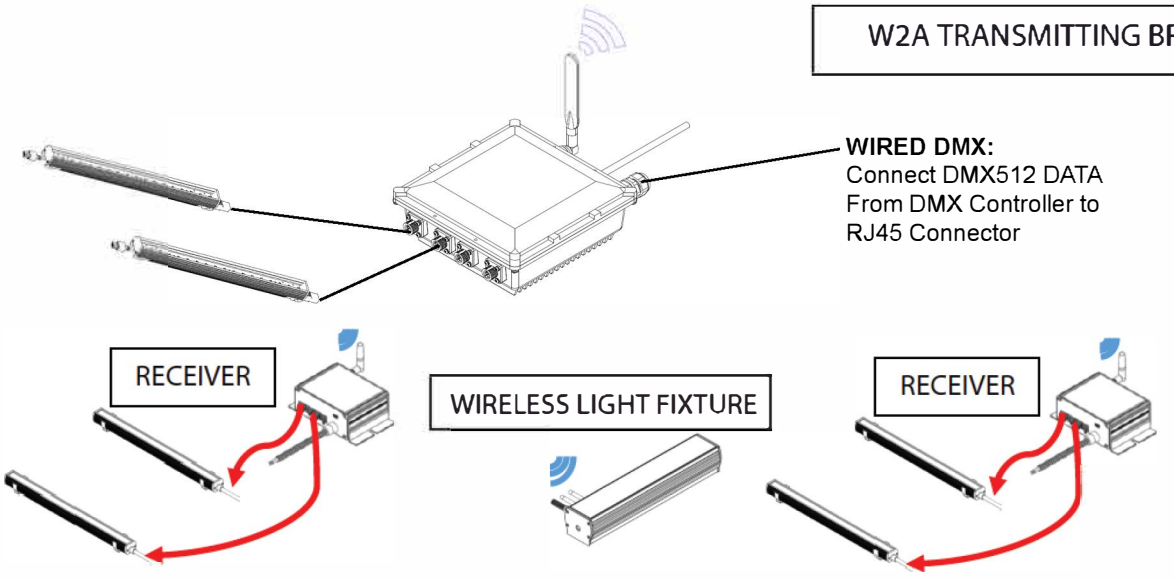


WIRED DMX:
Connect DMX512 DATA From DMX Controller to RJ45 Connector

2. Wired DMX input to wireless output (W2A Bridge Mode)

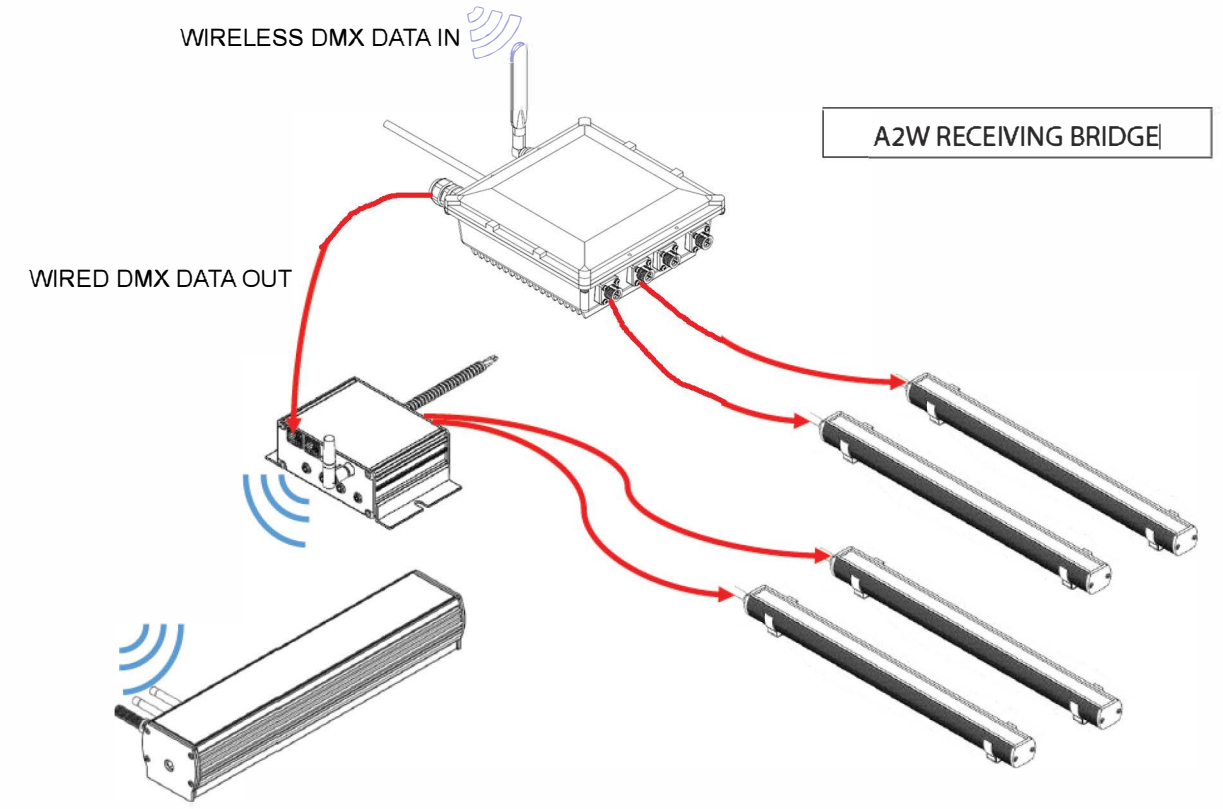
NANOROUTER-X is configured to function as wired to air bridge, receiving DMX input via wired connection and transmitting wireless signal to NANOROUTER-X in Receiver mode and wireless enabled light fixtures.

Note, output ports A,B,C, D are active and transmit data and load in any configuration.



3. Wireless DMX input to wired output (A2W Bridge Mode)

NANOROUTER-X is configured to function as air to wired bridge, receiving DMX input wirelessly and transmitting through DMX wired connection.



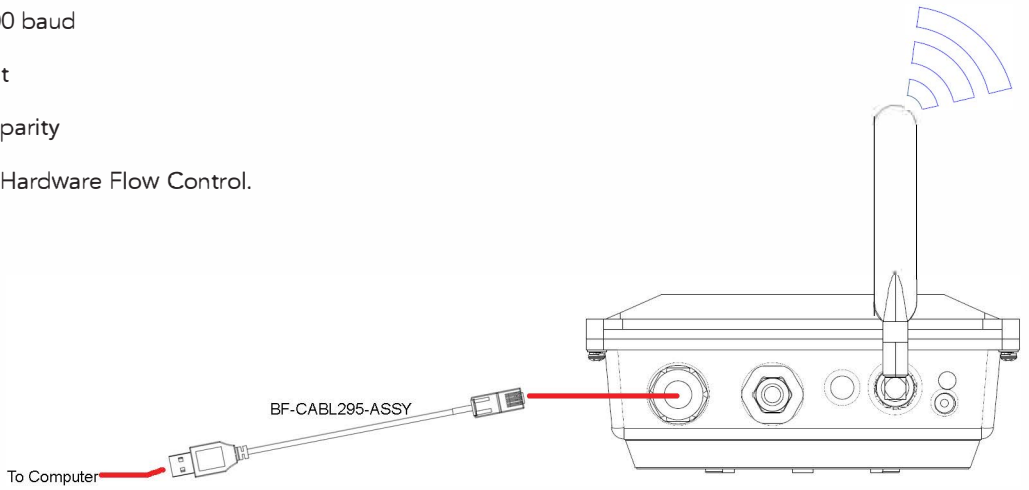
LINK BUTTON

This button is used to link or unlink wireless receivers within range.

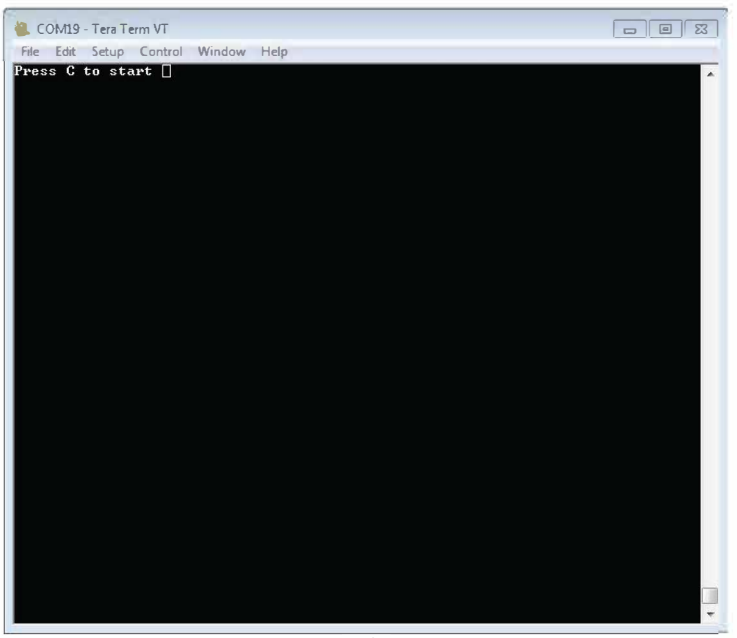
- Link: When the button is pressed for a brief period of time the transmitter will link unlinked receivers within range.
- Unlink: On a transmitter (W2A Mode or), pressing the link switch two times will cause any linked receivers to unlink. On a receiver (A2W or Wireless DMX Mode), pressing the link switch two times will cause the individual receiver to unlink.

CONFIGURATION INSTRUCTIONS:

1. Connect the Nanorouter-X to a computer via custom USB-to-RJ45 cable (BF-CABL295-ASSY), wait for Windows to install the NanoRouter-X and assign a comm port, open a hyperterminal software (Tera Term or any other), select a serial connection using the commport assign to the NanoRouter-X following the port settings:
   - 9600 baud
   - 8 bit
   - No parity
   - No Hardware Flow Control.

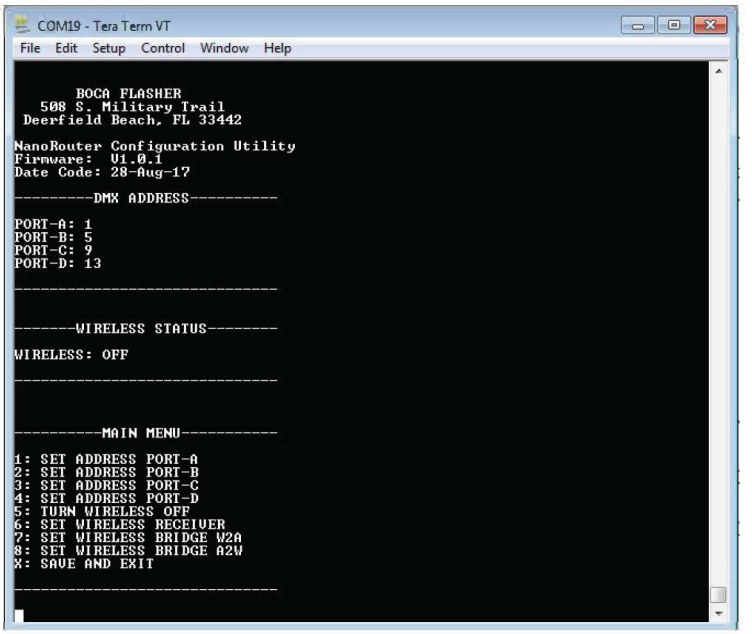


2. Open Terminal window and press "C" to begin configuration.



3. Main Menu displays the current DMX addresses (default settings if first time setup).

Press the number on the keyboard that corresponds to the function you wish to use.



4. Functions 1 through 4 allow the setup of new addresses for each port. Default addresses are:

1, 5, 9, 13 for Ports A, B, C, D respectively.

Press BACKSPACE to clear current address and enter new address. Press ENTER to confirm address.

, **Port A address**

, **Port C address**

, **Port B address**

, **Port D address**

5. Function 5 sets wireless functions off (Wireless DMX off, Wired DMX on by default).

6. Functions 6, 7, and 8 enable the different wireless functions.

- Function 6 sets the NANOROUTER-X to Receiver Mode. (Wireless DMX receiving, Wired DMX off)
- Function 7 sets the NANOROUTER-X to W2A Bridge mode, wired to air. (Wired DMX receiving, Wireless DMX transmitting)
- Function 8 sets the NANOROUTER-X to A2W Bridge mode, air to wired. (Wired DMX transmitting, Wireless DMX receiving).

7. Press "X" to save settings and exit configuration. A configuration report is displayed upon exit.

Note: The USB cable must be unplugged to enable normal operation of the NANOROUTER