

Clarion Module R9 User Manual

Revision 1
June 1, 2018



Clarion Module

Notes

The Clarion module is an electronics module that allows for user interaction with an electric bicycle and communicates the bike state and location to a web server using a cellular connection.

Instructions

The Clarion module looks like this to the user:



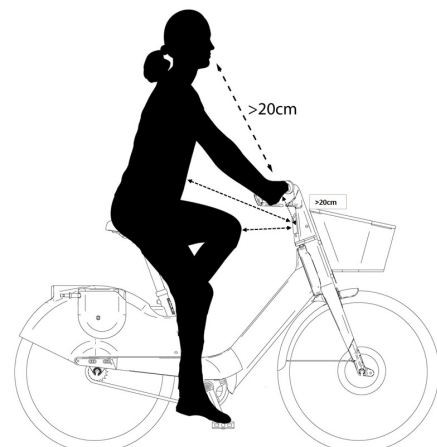
The three large circles are capacitive touch buttons intended for users to interact with. The left button puts a ride on hold, the middle button wakes up the module, and the right button reports issues with the bike. The four smaller icons are indication LEDs that indicate the following (left to right): reservation status of bike, user incentive/bounty, bike is unlocked, bike is locked.

Accessory List

No accessories are to be used with this device.

Accessory Specification

No accessories are to be used with this device.





Declarations

Users are strictly forbidden to change the equipment.

The socket-outlet shall be installed near the equipment and shall be easily accessible.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Safety Precautions

Do not open the device unless you are explicitly authorized to do so and trained on how to do so by Jump Bikes personnel.

Operating Conditions

This device is intended for use between -10 °F (-23.3 °C) and 130 °F (54.4 °C).

Electrical Notes

Description	Specification	Notes
External Power	5V	System is powered from 5V bike bus.
Operating Current	1,5A Max	
Typ. Power Draw	7,5W max.	
Internal Power	3.8V	Stand-by power after external battery power off
Operating Current	600mA Max	
Rated Capacity	1030mAh (Typ.)	

RF Maximum Output Power:

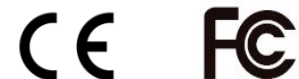
2G(900/1800Mhz): 32.61 /28.88dbm

Cat M1 (Band1/Band3/Band20) :

22.33dbm/21.65 dbm/22.97 dbm

2.4GHz Bluetooth 4.0 EIRP : 0.97 dbm

NFC : -13.52dBuA/m at 10m



SIMPLIFIED EU DECLARATION OF CONFORMITY

Hereby, Social Bicycles LLC declares that the radio equipment type Clarion Module R7 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: <https://jump.com/>

This product can be used across EU member states

When using the product, maintain a distance of 20cm from the body to ensure compliance with RF exposure requirements.

FCC caution

Federal Communication Commission (FCC) Radiation Exposure Statement

When using the product, maintain a distance of 20cm from the body to ensure compliance with RF exposure requirements.

FCC statements:

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the user's authority to operate the equipment.

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.