



CLIQ.lite Controller Installation Sheet



Last modified: 10/22/15

Description

The Clare Controls CLIQ.lite in-home controller is the entry point for Clare Controls' home automation solutions. The CLIQ.lite runs on the same hardware platform as the full-featured CLIQ.host. The CLIQ.lite is a scaled version of the CLIQ.host, yet it supports all of the same applications. As your customer's needs grow, you can upgrade the CLIQ.lite with all the functions of a CLIQ.host, via a simple license update. If further expansion is necessary, you can add a CLIQ.connect module to nearly double the controller's I/O ports.

WARNING: Any changes or modifications made to this product not expressly authorized by the manufacturer could void the user's right to operate this device.

Unpacking the CLIQ.lite

Remove all contents from the CLIQ.lite packaging and ensure you have the following items.

- 1 × CLIQ.lite device
- 1 × power supply
- 3 × terminal connectors
- 1 × terminal connector jig
- 2 × RJ12 to DB-9 cables (null modem)
- 6 × IR emitters
- 1 × Z-Wave antenna and extender cable
- 4 × rubber foot covers

Record the device's UUID number (labeled on the bottom of the device) on the line below, or scan the QR code (also on the label) with a scanning app, and then email the number to your system programmer. Your system programmer will need this information to configure the CLIQ.lite device.

UUID: _____

Do not use this UUID for more than one account.

WARNING: Do not apply power to the CLIQ.lite until installation is complete. Failure to do so may result in bodily injury and/or damage to the equipment.

Installation

The CLIQ.lite can be mounted in a structured enclosure, set on a rack shelf, or placed in any room near your devices.

Note: The CLIQ.lite contains a Z-Wave radio. To prevent radio frequency (RF) interference from external sources, we recommend that you place the CLIQ.lite away from devices that may cause interference and away from conductive metals.

Mounting the CLIQ.lite in a structured enclosure

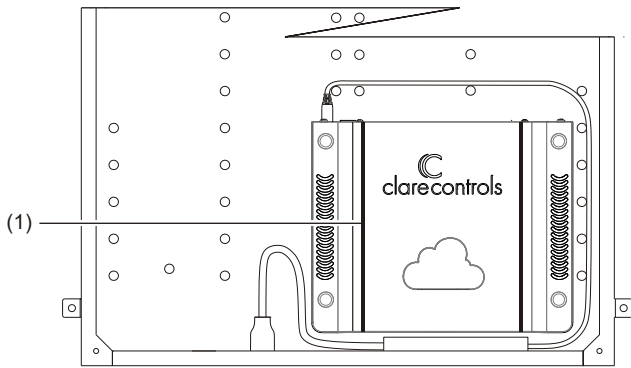
When mounting the CLIQ.lite in a structured enclosure, we recommend using the Leviton Structured Media Enclosure or the Suttle SOHO Access Enclosure panels fitted with the ClareHome Structured Enclosure Extender (P/N CH-EXT-28 and CH-EXT-42) for added protection against heat build-up. (Panels and extenders are sold separately.)

To mount the CLIQ.lite in a structured enclosure:

1. Place the CLIQ.lite inside the structured enclosure with the rear of the device facing up, see Figure 1.
2. Using cable ties, secure the CLIQ.lite to the enclosure.

Note: Be sure to leave at least 1U of spacing (1.75 in. (4.45 cm)) above and below the CLIQ.lite when mounting.

Figure 1: CLIQ.lite mounted in a structured enclosure



(1) Mount CLIQ.lite with cable ties

Connecting devices to the CLIQ.lite

After placing your CLIQ.lite, make the connections to your other devices. Figures 2 and 3 identify the LEDs and ports on the front and rear of the CLIQ.lite. Refer to the documentation that came with each of your other devices for detailed information about connecting those devices to the CLIQ.lite.

To connect the CLIQ.lite:

1. Connect your serial devices (optional) to either of the two RS-232 ports using an RJ12 to RS-232 cable, or an RJ12 to DB9 null modem cable (included). See Figure 3, item 1. For RJ12 pinouts, see Figure 6.
2. Connect your IR devices (optional) to the 12-pin terminal connector (included), and then insert the connector into the port labeled "IR Outputs." See Figure 3, item 2.

If your IR device comes with a 3.5 mm connector, you will need to cut and strip the wires before connecting it to the terminal connector.

Note: When connecting an IR emitter (included), attach the striped wire to positive (+) and the black wire to negative (-).

3. Connect a CS-BR-1 Streams Audio Bridge (optional) to a USB port on the CLIQ.lite. See Figure 3, item 3.

Note: The USB connection allows the CS-BR-1 to encode up to three simultaneous audio streams onto the CobraNet network.

4. Connect your digital I/O devices (optional) to the 8-pin terminal connector, and then insert the terminal connector into the port labeled "I/O." See Figure 3, item 4.

When connecting devices, wire it such that ports 1 and 2 share the same 12 VDC power and ground and ports 3 and 4 share the same power and ground.

5. Use an Ethernet cable (not included) to connect your CobraNet switch to the port labeled "CobraNet." See Figure 3, item 5.

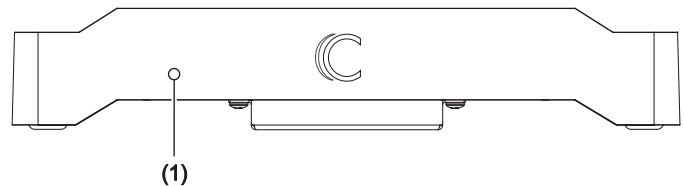
Note: The CobraNet port is preset with the static IP address 172.30.100.1. All CobraNet devices used on the same subnet must use an address from 172.30.100.2 to 172.30.100.254.

6. Use an Ethernet cable (not included) to connect to your data network switch to the port labeled "Ethernet." See Figure 3, item 6.

Notes

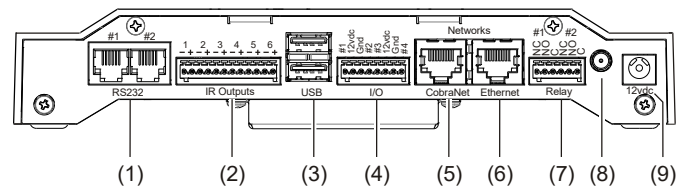
- The Network port is preset to DHCP. If you are using the Streaming Media server in your project, a fixed IP address is not required and should be configured as "localhost."
 - If you are using a device, such as an RTI remote that requires the controller to have a fixed IP, you must set the fixed IP using a MAC/DHCP reservation on the local router.
7. Connect relay contacts (e.g., garage door contacts) to the 6-pin terminal connector, and then insert the terminal connector into the port labeled "Relay." See Figure 3, item 7.
 8. Attach the Z-Wave antenna or optional Z-Wave antenna extender to the Z-Wave port. See "Attaching the Z-Wave antenna" below.

Figure 2: CLIQ.lite front



(1) LED – It illuminates purple when booting and blue when running normally

Figure 3: CLIQ.lite rear connections



- | | |
|----------------------|--------------------|
| (1) RS-232 (2 ports) | (6) Ethernet |
| (2) IR Outputs | (7) Relay |
| (3) USB port | (8) Z-Wave antenna |
| (4) I/O | (9) Power – 12 VDC |
| (5) CobraNet | |

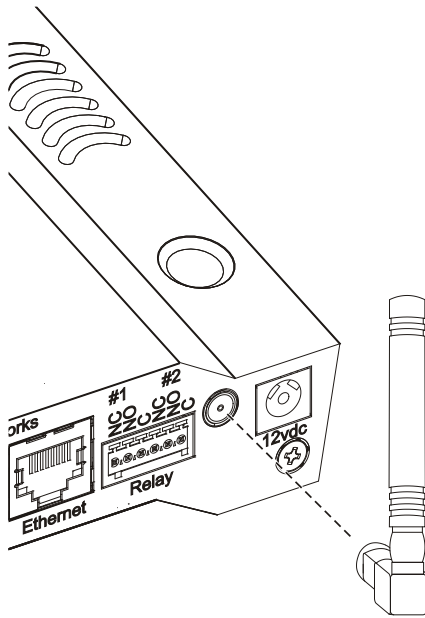
Attaching the Z-Wave antenna

The Z-Wave antenna can be mounted to the CLIQ.lite controller, or further away using an extender cable (included) to enhance radio performance. When mounting the CLIQ.lite inside a structured enclosure, always mount the antenna outside the enclosure using the extender cable.

To attach the antenna directly to the CLIQ.lite:

1. Remove the Z-Wave antenna from its packaging.
2. Screw antenna to the antenna port on the rear of the CLIQ.lite until the antenna is snug. Do not over-tighten the antenna. See Figure 4.

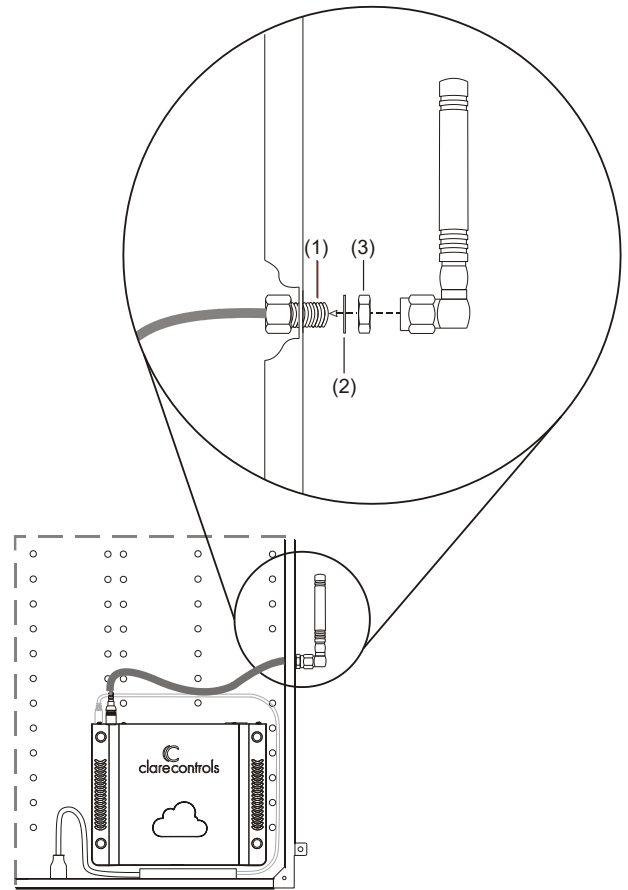
Figure 4: Attaching the antenna to the CLIQ.lite



To attach the antenna using the extender cable:

1. Using a 17/64 in. drill bit, drill a hole in the sidewall of the ClareHome Structured Enclosure Extender, near the CLIQ.lite.
2. On the extender cable, remove the locknut and washer from the SMA Male connector. See Figure 5.
3. Insert the threaded end though the hole, and then replace the washer and locknut, tightening the locknut until the connector is secure and does not wobble in the hole.
4. Screw the Z-Wave antenna to the connector until the antenna is snug.
5. Attach the other end of the extender cable to the antenna port on the rear of the CLIQ.lite. See Figure 3, item 8.

Figure 5: Attaching the antenna with the extender cable

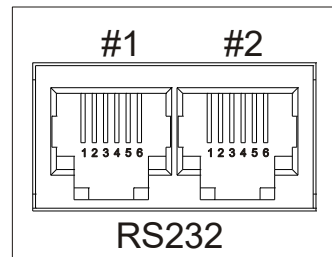


- (1) SMA Male connector
- (2) Washer
- (3) Locknut

RS-232 port pinouts

If you are using your own RJ12 cable (rather than the one supplied), ensure your RJ12 cable connector pinouts match the pinouts on the RS-232 ports shown in Figure 6.

Figure 6: RS-232 ports with pinouts



Pin No.	Function
Pin 1	No connection
Pin 2	Ground
Pin 3	Transmit data (from CLIQ)
Pin 4	Receive data (to CLIQ)
Pin 5	Ground
Pin 6	No connection

Powering the CLIQ.lite

Plugging in the power adapter automatically turns on the CLIQ.lite and starts the boot process.

To connect power to the CLIQ.lite:

1. Plug one end of the power adapter into a power receptacle on the back of the CLIQ.lite labeled "12vdc." See Figure 3, item 9.
2. Check the LED on the front of the CLIQ.lite. It illuminates purple when booting and blue when running normally. See Figure 2, item 1.

Time, date, and time zone

Your CLIQ.lite controller automatically detects and sets its time, date, and time zone when you connect it to your data network. CLIQ.lite uses NTP and synchronizes the date and time at boot up and periodically throughout the day.

Configure, test, and deploy a project

Refer to the Clare Controls Knowledge Base [Fusion Help](#) for instructions on creating, testing, and deploying a project. When you deploy the project from Fusion, it will deploy to the CLIQ.lite.

Adding the rubber foot covers

To prevent the unit from sliding, use the four rubber foot covers included with your CLIQ.lite.

To add the rubber feet:

- Peel each foot cover from the paper backing and place one on each foot on the bottom of the CLIQ.lite.

Upgrading your CLIQ.lite license

With a simple license update, you can upgrade your CLIQ.lite to have the same unlimited functions as a CLIQ.host. To upgrade your license, contact our Technical Support group at the numbers listed in the "Contact information" section. Before calling, be sure you have the following information available.

- License key number
- UUID (listed on the bottom of the unit)
- Dealer name and address

Regulatory information

Manufacturer	Clare Controls, Inc. 7519 Pennsylvania Ave, Suite 104 Sarasota, FL 34243
FCC compliance	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.

Specifications

Applications supported	
Audio zones	4 zones
Audio streams	3
Lighting	10 circuits
Security	1 partition, 8 zones
Thermostats	2
Cameras	2
Pool spa	Not supported
Entertainment	4
I/O ports	
RS-232 [1]	2
IR outputs	6 (2 pins per IR)
USB [2]	2
I/O	4 (8 pins)
CobraNet	1
Ethernet	1
Relay	6 pin, (2 normally open, 2 normally closed)
General	
Processor	Freescale iMX6
Operating system	Linux
Memory	2 GB DRAM, 1 GB NAND Flash
Power	8.4 W (700 mA at 12 VDC)
Operating temperature	41 to 113°F (5 to 45°C)
Relative humidity	10 to 90%, non-condensing
Dimensions (W × H × D)	1.3 × 8 × 6 in. (3.3 × 20.32 × 15.24 cm)

[1] CLIQ.lite units support RS232 speeds of 300 baud and higher.

[2] CLIQ.lite units marked Rev C or higher use both USB ports. Units marked Rev B or lower, or with a numerical revision level, are use the top USB port only. See the label on the bottom of the unit to determine its revision level.

Contact information

Clare Controls, Inc.
7519 Pennsylvania Ave, Suite 104
Sarasota, FL 34243
Support: 941.404.1072
Fax: 941.870.9646
<http://support.clarecontrols.com>
www.clarecontrols.com