

MOUNTING

The RK1+ is designed for flush-mount installations in walls or cabinets. It requires an available mounting depth of 2.0 inches (50mm) from the front surface of the wall. Normally, the RK1+ is mounted in a standard single-gang electrical box or mud-ring.

POWERING THE RK1+

The RK1+ is turned-on by simply applying power to it. The RK1+ will enter an idle mode after a programmed time of inactivity. After entering idle mode, the RK1+ is activated by touching any button. RTI provides two power supply solutions which are sold separately:

- 1) **CB8 Connecting Block:** Wire a Cat-5 cable from the RK1+ Control Port to the RTI CB8 Connecting Block (see diagram).

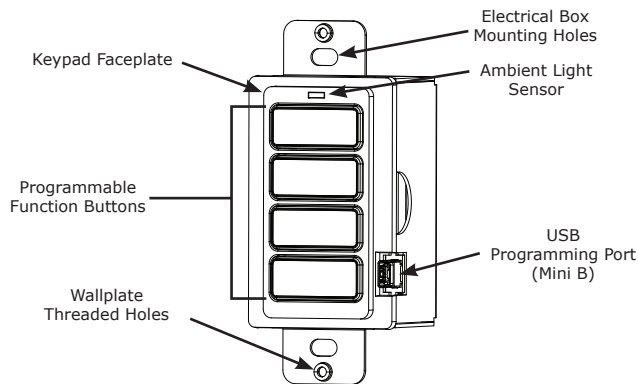
OR

- 2) **Power Supply:** Connect a power supply (+9VDC to +16VDC, .5A) to the "Ground" and "9-16VDC" pins of the Control Port (see diagram).

NOTE: The RK1+ should NOT be powered from an RTI control processor.

RK1+ KEYPAD REFERENCE

RK1+ Front



PROGRAMMING

THE RK1+ INTERFACE

The RK1+ is a flexible, programmable interface. In the most basic configuration, the RK1+ buttons can each be used to execute a single function or "scene". If more functionality is required, the buttons can execute complex macros, jump to other "pages", and change backlight colors to provide status feedback. This level of customization allows almost any type of user interface functionality to be created.

UPDATING FIRMWARE

It is highly recommended that this and all RTI products have the latest firmware installed. The firmware can be found in the Dealer section of the RTI website (www.rticorp.com). Install the firmware using a USB cable (USB A to Mini B).

UPDATING SOFTWARE

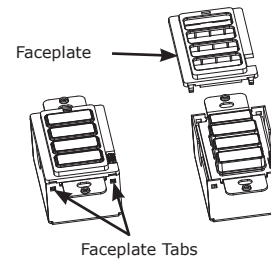
RTI's Integration Designer data files can be downloaded to the RK1+ using a USB cable (USB A to Mini B).

BUTTON LABELS

The RK1+ includes a set of labels for attaching to the face of each button. The label sheets include a wide variety of function names that are appropriate for most common scenarios. The RK1+ Kit also includes a certificate for one set of custom engraved Laser Shark button keycaps (find details on the rticorp.com dealer section).

THE PROCEDURE FOR ATTACHING LABELS AND KEYCAPS IS:

- 1) Use a small screwdriver to release the tabs (shown) and pry off the faceplate.



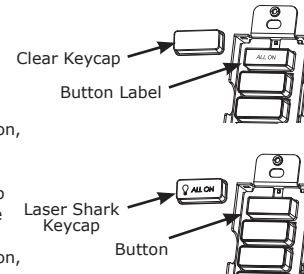
- 2) Remove the clear keycap.

USING BUTTON LABELS (INCLUDED)

- 3) Center the selected button label within the rubber pocket.
- 4) Replace the clear keycap.
- 5) Repeat the steps above for each button, and then replace the faceplate.

USING LASER SHARK KEYCAPS

- 3) Place the selected Laser Shark keycap over the button and press down. (The clear keycap may be discarded).
- 4) Repeat the steps above for each button, and then replace the faceplate.



CONNECTIONS

CONTROL PORT

The Control Port on the RK1+ uses a Cat-5 cable with RJ-45 termination. When used in conjunction with an RTI control processor (e.g. RTI XP-6) and an RTI connecting block (e.g. RTI CB-8), this port serves as the power source for the RK1+ in addition to infrared and RS-485 communication (see diagram for pinout).

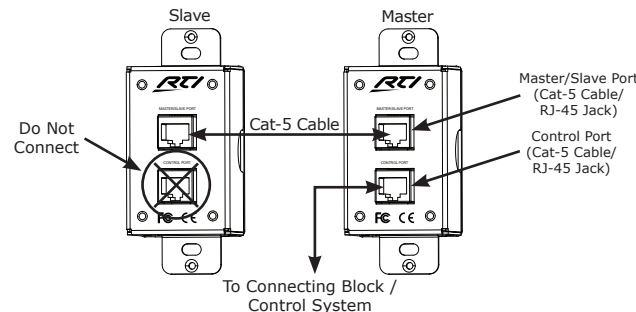
USB PORT

The RK1+ USB port (located on the front of the unit beneath the bezel) is used to update firmware and the programming data file using a USB A to Mini B cable.

MASTER/SLAVE PORT

Two RK1+ units can be connected together using a Cat-5 patch cable between the Master/Slave ports on each unit. This allows two keypads to sync with each other so they behave like one larger keypad. Any combination of two, four, or eight button RK1 or RK1+ units can be connected together.

When configured in this way, only the master unit should be connected via the Control port (for power, IR, etc.). The slave unit will derive power and communications from the master. Only the master unit should be programmed.



RK1+ BASIC WIRING CONFIGURATIONS

