



T1-B+ Wireless Controller

Reference Guide



Key Features

Completely customizable and programmable, the T1-B+ allows all other factory remote controls to be combined into one simple, ergonomic user interface providing powerful one-handed system control. Featuring a sleek industrial design and perfect assortment of keypad buttons, the T1-B+ easily operates today's sophisticated media system, no matter how complex.

The T1-B+ comes loaded with the following features and much more:

- Dual RF capability uses 433MHz and 2.4GHz (utilizing Zigbee® technology).
- Eight source and four general purpose assignable/programmable keypad buttons with keycap labels.
- Transmits IR and RF (or both - on a single button press!).
- Optional RF receiver allows you to transmit through walls, cabinets, etc.
- System includes a Lithium-Ion battery and docking station.
- Docking station backlight may be disabled.

Product Contents

Contents within the box include the following items:

- One (1) T1-B+ universal system controller
- One (1) Docking station
- One (1) International 5V/2A power supply for docking station
- One (1) Reference guide
- Two (2) Keycap clusters (32 keycaps per cluster)
- One (1) Wall-mount bracket
- Three (3) Mounting screws for wall-mount bracket
- Two (2) Drywall anchors
- One (1) Laser Shark Certificate for a free custom engraving
- One (1) Firmware Update Notification

Safety Suggestions

Read and Follow Instructions. Read all safety and operating instructions before operating the unit.

Retain Instructions. Keep the safety and operating instructions for future reference.

Heed Warnings. Adhere to all warnings on the unit and in the operating instructions.

Heat. Keep the unit away from heat sources such as radiators, heat registers, stoves, etc., including amplifiers that produce heat.

Power Sources. Use only batteries of the type described in the operating instructions, or as marked on the unit.

Water and Moisture. Do not use the unit near water—for example, near a sink, in a wet basement, near a swimming pool, near an open window, etc.

Object and Liquid Entry. Do not allow objects to fall or liquids to be spilled into the enclosure through openings.

Servicing. Do not attempt any service beyond that described in the operating instructions. Refer all other service needs to qualified service personnel.

Damage Requiring Service. The unit should be serviced by qualified service personnel when:

- Objects have fallen or liquid has been spilled into the unit.
- The unit has been exposed to rain.
- The unit does not appear to operate normally or exhibits a marked change in performance.
- The unit has been dropped or the enclosure has been damaged.

Limited Warranty

RTI warrants its products for a period of three (3) years (one year for included battery packs); or for a period of time compliant with local laws when applicable from the date of purchase from RTI or an authorized RTI distributor.

This warranty may be enforced by the original purchaser and subsequent owners during the warranty period, so long as the original dated sales receipt or other proof of warranty coverage is presented when warranty service is required.

Except as specified below, this warranty covers all defects in material and workmanship in this product. The following are not covered by the warranty:

Damage resulting from:

1. Accident, misuse, abuse, or neglect.
2. Failure to follow instructions contained in this Guide.
3. Repair or attempted repair by anyone other than Remote Technologies Incorporated.
4. Failure to perform recommended periodic maintenance.
5. Causes other than product defects, including lack of skill, competence or experience of user.
6. Shipment of this product (claims must be made to the carrier).
7. Being altered or which the serial number has been defaced, modified or removed.

Contacting RTI

For news about the latest updates, new product information, and new accessories, please visit our web site at: www.rticontrol.com
For general information, you can contact RTI at:

Remote Technologies Incorporated
5775 12th Avenue East, Suite 180
Shakopee, MN 55379
Tel. (952) 253-3100
Fax (952) 253-3131

Service & Support

If you are encountering any problems or have a question about your RTI product, please contact RTI Technical Support for assistance (see the Contacting RTI section of this guide for contact details).

RTI provides technical support by telephone or e-mail. For the highest quality service, please have the following information ready, or provide it in your e-mail.

- Your Name
- Company Name
- Telephone Number
- E-mail Address
- Product model and serial number (if applicable)

If you are having a problem with hardware, please note the equipment in your system, a description of the problem, and any troubleshooting you have already tried.

If you are having a problem with software, please note what version you have installed, the operating system on your PC, a description of the problem, and any troubleshooting you have already tried. If you are calling about a software or programming question or problem, please be at your computer when you place your call. This will considerably speed up the troubleshooting process.

Please do not return products to RTI without return authorization.

Federal Communications Commission Notice

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

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 the 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.

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.
2. This device must accept any interference received including interference that may cause undesired operation.



Contains:
FCC ID: MMURTI1500, IC:3166A-1500

DECLARATION OF CONFORMITY (DOC)

The Declaration of Conformity for this product can be found on the RTI website at: www.rticorp.com/declaration

Powering On/Off the T1-B+

A power on/off switch is located under the battery access door (See diagram at right).

POWER ON/OFF T1-B+:

1. Remove the battery door from the rear of the remote by applying downward pressure on battery door near battery door seam (pressing down near seam "unlocks" the door latch) and slide the door off.
2. Turn Power On/Off Switch.
3. Slide the battery door onto the remote until it snaps into place.

Charging the T1-B+ Battery

WHEN TO CHARGE THE T1-B+:

The T1-B+ uses a Lithium-ion rechargeable battery which does not exhibit a memory effect from being charged too often and may be placed into the dock when not in use. A fully discharged battery will take approximately 2-4 hours to completely re-charge.

- If the T1-B+ battery capacity is reduced to approximately one hour of remaining run-time, the Status LED will illuminate red while the unit is powered-up.

THE T1-B+ DOCKING STATION:

The T1-B+ Docking Station can be placed on a flat surface such as a shelf or table, or it can be mounted to a wall using the included mounting bracket.

- The docking station LED illuminates red to indicate a charge in progress.
- The LED will illuminate blue when the battery in the T1-B+ is fully charged or does not need to be charged, unless the backlight dip switch located on the bottom of the docking station is set to the "off" position.

Docking Station Front



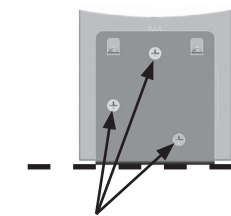
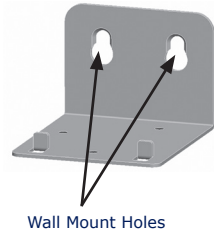
POWERING THE T1-B+ DOCKING STATION:

1. Locate and install the appropriate wall outlet plug on to the power supply.
2. Insert the mini-plug end of the power supply cable into the port located on the underside of the docking station.
3. Plug the power supply cable into a wall outlet.

DOCKING STATION WALL MOUNT BRACKET

Wall Mount Bracket
(Front View)

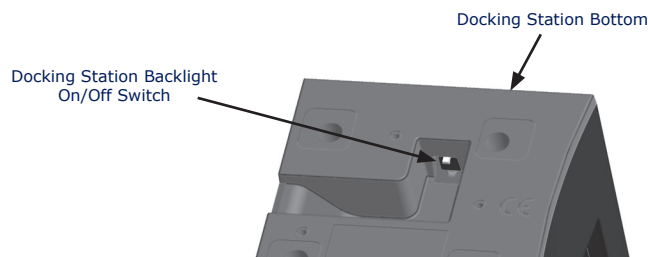
Wall Mount Bracket
(Bottom View - With Dock Mounted)



Wall
Surface

Screws Attach
Wall Bracket to Dock

DOCKING STATION BACKLIGHT ON/OFF ADJUSTMENT



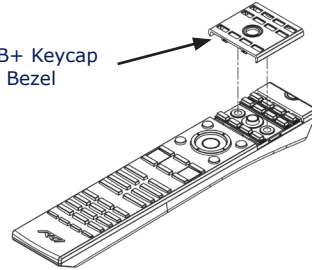
Installing Keycap Labels

The T1-B+ includes sheets of keycaps that include labelling for sources and functions.

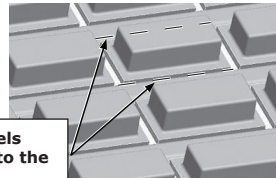
To install the keycap labels:

1. Start by removing the bezel from the T1-B+ by gently prying up on the bezel which is held on by magnets.

T1-B+ Keycap
Bezel



2. Using a pair of scissors, individually cut-out the keycaps that will be used.



Cut along the channels
that are the closest to the
keycap walls.

3. After the keycap is cut out, align it on an empty keycap button.
4. Press down firmly on the keycap until it is firmly seated.
5. When finished applying keycaps, replace the bezel on the T1-B+.

Note: the keycaps can be permanently secured by using an adhesive that bonds to silicon rubber. The following instant adhesive glue works well and is readily available:

Silicon Adhesive: Loctite PRISM® 401 (p/n 40104)
Contact East: # 173-606
U.S. Resellers: McMaster-Carr: # 74765A63
Grainger: # 3KE58

Follow these steps to apply the Loctite #401 adhesive:

1. Apply a thin layer of the adhesive to the entire top surface of the desired keycap button.
 2. Press the desired keycap over the button.
 3. Press down firmly on the keycap for 15 seconds.
- Repeat these steps for each keycap on the T1-B+.

Programming the T1-B+

The T1-B+ remote control is programmed using RTI's Integration Designer® software. Authorized RTI dealers can download Integration Designer® software from the www.rticorp.com dealer section.

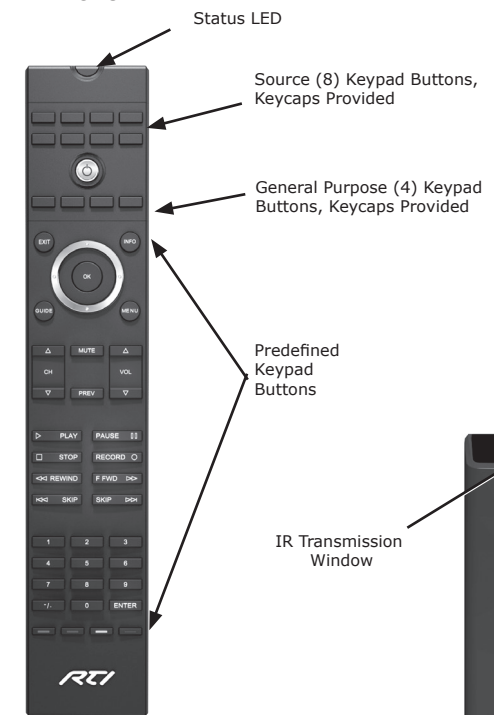
A PC running Windows XP or higher, with a USB port is required. The required USB A to Mini B cable is included with the RTI IR-PRO dealer kit.

Note: The T1-B+ will not operate while connected to a PC's USB port. Make sure you disconnect it from the computer to transmit commands. In addition, the T1-B+ will not be able to sync with a computer's USB port while it is transmitting a command or running a macro.

THE SOURCE BUTTONS

The eight source buttons at the top of the T1-B+ keypad may be programmed to run commands or macros in the same way that the other buttons can. In addition, they may be used to select the active source page. If programmed as a "source" button, the rest of the buttons on the keypad will switch to the programming associated with that page. A red LED is illuminated more brightly behind the source button to indicate the active page.

Front



Status LED

Source (8) Keypad Buttons,
Keypcaps Provided

General Purpose (4) Keypad
Buttons, Keypcaps Provided

Predefined
Keypad
Buttons

Back

IR Transmission
Window

Battery

Metal Battery
Retainer Clip

On/Off Switch

Docking
Station
Contacts

USB Programming Port

T1-B+ in
Docking Station

