

## FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the Federal Communications Commission (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.

## Industry Canada Compliance Statement

This device complies with Industry Canada license-exempt RSS standard(s). 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.

Cet appareil est conforme avec Industrie Canada exempts de licence standard RSS (s). Son fonctionnement est soumis aux deux conditions suivantes:

1. Ce dispositif ne peut causer des interférences nuisibles.
2. Cet appareil doit accepter toute interférence reçue y compris des interférences qui peuvent provoquer un fonctionnement indésirable.



### DECLARATION OF CONFORMITY (DOC)

The Declaration of Conformity for this product can be found on the RTI website [www.rticontrol.com/declaration-of-conformity](http://www.rticontrol.com/declaration-of-conformity)

## 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 power sources 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](http://www.rticontrol.com)

For general information, contact RTI at:  
Remote Technologies Incorporated  
5775 12th Ave. E Suite 180  
Shakopee, MN 55379  
Tel. (952) 253-3100  
[info@rticontrol.com](mailto:info@rticontrol.com)

## 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.

**Please do not return products to RTI without a return authorization.**



# CB-8 Connecting Block

## Reference Guide



The CB-8 is an installation accessory designed to provide convenient and reliable power connections for up to eight (8) RTI in-wall keypads\*, touchpanels and other devices. In addition to providing power, the CB-8 combines and routes the infrared outputs from the touchpanels to a single output for connection to an RTI control processor. Multiple CB-8 units can be daisy-chained for connecting more than eight devices. A 12VDC 4.0Amp power supply is included.

## Key Features

The CB-8 provides superior quality and reliability as well as these specific features:

- Provides power connections for up to eight (8) RTI devices\*.
- Combines and routes infrared outputs from touchpanels to a single output.
- Enables communication between RTI Control Processors and devices via RS-485.
- Multiple CB-8 units can be daisy-chained.
- Standard RJ45 ports for easy connection of touchpanels.

\* NOTE: Maximum number depends on keypad model.

## Product Contents

Contents within the box include the following items:

- One (1) CB-8 Connecting Block
- One (1) Power Supply
- One (1) Cat 5 Patch Cable
- One (1) Reference guide

## Installation & Operation

### RJ-45 WIRING STANDARD

All RJ-45 plugs should be attached to Cat-5/6 cable using the EIA/TIA 568B standard.

#### RJ-45 Connector Pin Out

Pin #	Color	Function
1	White with orange stripe	RS-485-
2	Solid orange	RS-485+
3	White with green stripe	Infrared
4	Solid blue	+16VDC
5	White with blue stripe	+16VDC
6	Solid green	Infrared
7	White with brown stripe	Ground
8	Solid brown	Ground

### MAXIMUM NUMBER OF DEVICES AND CABLE DISTANCES

Each CB-8 provides power to the following devices up to the distances listed using IR or Ethernet for control (if available). For control via RS485, the total wired distance for all attached devices should be kept under 1000 ft (300m).

- **KX10s** - 2 maximum - Up to 60 feet away.
- **KX3, KX4, KX7s** - 4 maximum - Up to 150 feet away.
- **KX2, RK1+, RKM-1+** - 8 maximum - Up to 1000 feet away.
- **Expansion Modules (PCM-8)** - 8 maximum - Up to 1000 feet total wired distance to all modules.

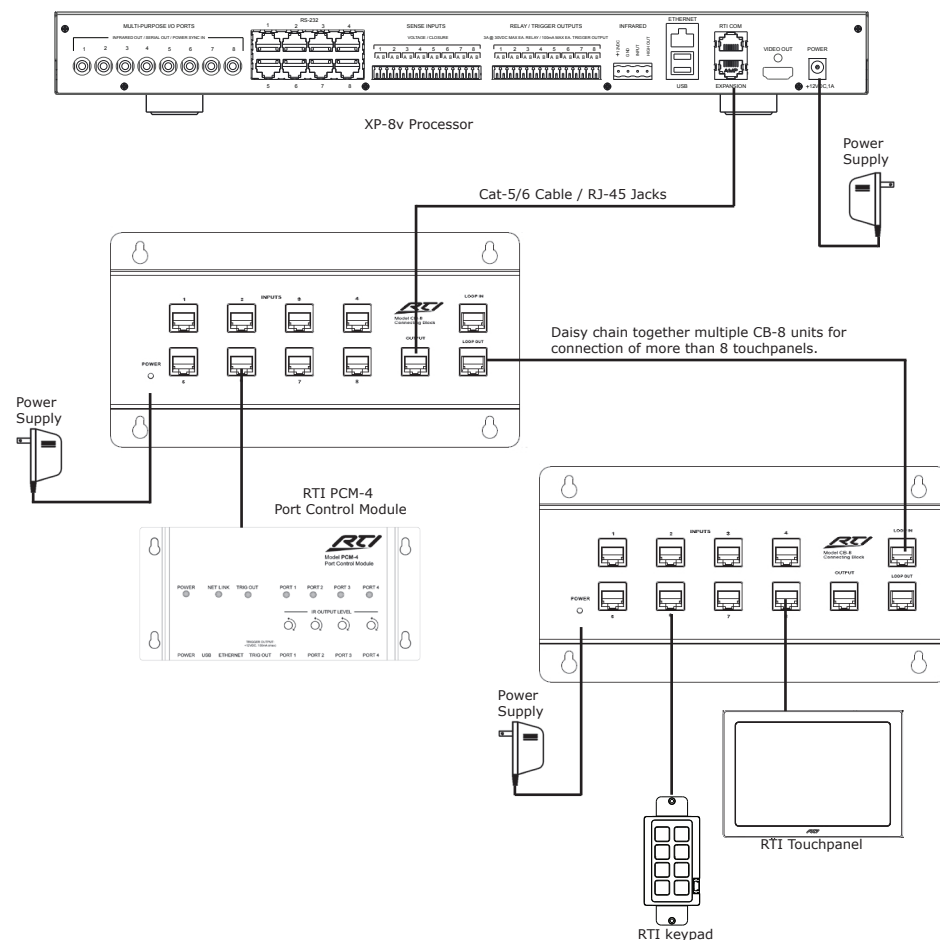
**Note:** The CB-8 is not compatible with KA8 or KA11 touchpanels.

## Specifications

Power Supply	12 VDC, 4.0A
Maximum Current per Port	1.5A
Enclosure	Formed steel, black power coating
Dimensions	5 in. x 9.4 in. x 1 in. (127mm x 239mm x 25.4mm)
Mounting	Wall-mount or free standing
Weight	24.7 oz. (700 grams)

All specifications are subject to change.

## Connections



## Important Notes

Please read these important notes about the CB-8:

- The CB-8 should be placed in an area where it is around normal room temperature (between 60°F to 90°F).
- Avoid installing the CB-8 in a location where it can come in contact with direct sunlight.
- Do not let the CB-8 get wet. It should not be handled with wet hands or placed in an area where it could get wet.
- Do not subject the CB-8 to smoke, dust, or vibrations.
- Only use the power supply that is specified for the CB-8. Using the wrong type of power supply may result in damage.
- Do not disassemble the unit. Service of the CB-8 should be performed by authorized personnel only.