RE ***RING*** ™

ENGINEERING

Model Railroad
Computer Interface
Module (CI-1)

User Manual

Ring Engineering Inc.
(219) 322-0279
www.RingEngineering.com   **Revision 1.01**

Introduction

Thank you for purchasing this Ring Engineering product. We take pride in the products that we produce and hope you find this product to be a great addition to your model railroad layout.

Please read all warnings and instructions before installation and use. For the latest information including the latest revision of this manual please visit our Internet site at *www.RingEngineering.com*.

The CI-1 is used to add Direct Radio to a computer with a USB port. By installing the appropriate software, the software can send RF signals to RailPro Direct Radio products to control and setup the RailPro Direct Radio products.

Please see appropriate RailPro software that uses the CI-1.
http://www.ringengineering.com/RailProSoftware.htm

Warnings

- Only connect a CI-1 module to an approved USB port.
- There are no user serviceable parts inside. Return to Ring Engineering for repair.
- This product contains a chemical known to the state of California to cause cancer and birth defects (or other reproductive harm). This product contains lead.

Installation

Step 1 – Plug your CI-1 into a USB port.

Step 2 – Load a program to your computer that uses a CI-1 from Ring Engineering's Internet site

Your CI-1 is now ready to use!

Operation

Please see the RailPro Software User Manuals for information on the computer programs that use the CI-1.

http://www.ringengineering.com/RailProSoftware.htm

TIP: You can plug the CI-1 directly into a computer USB plug, but you will likely get a longer RF transmission range if you plug the CI-1 into a USB extension cable. CI-1 extension cables have to be USB 2.0 compliant or higher and have a USB A female connector on one end, and a USB A male connector on the other end.

TIP: You can use dozens of feet of USB extension cables to get the CI-1 into the middle of the area that you will be operating or setting up RailPro products. A USB HUB or powered USB extension cable can be used to reach long distances.

TIP: The CI-1 with the HC Simulator Software can use Repeaters (such as the PWR-56) to significantly increase the range and dependability of the RF signal just like the real RailPro Handheld controller does. Please see the Handheld Controller User Manual to see how to setup the HC Simulator to use repeaters.

TIP: A real RailPro handheld controller typically has a significantly longer RF range than a CI-1 used with the HC Simulator Software.

Warranty

Limited One Year Warranty

Ring Engineering, Inc. (Ring Engineering) warrants that for a period of one year from the date of purchase, this product will be free from defects in material and workmanship. Ring Engineering, at its option, will repair or replace this product or any component of the product found to be defective during the warranty period. Replacement will be made with new or remanufactured product or component. If the product is no longer available, replacement may be made with a similar product of equal or greater value. This is your exclusive warranty.

This warranty is valid for the original retail purchaser from the date of initial retail purchase and is not transferable. Ring Engineering dealers, distributors, or retail stores selling Ring Engineering products do not have the right to alter, modify, or any way change the terms and conditions of this warranty.

The warranty does not cover normal wear of parts or damage resulting from negligent misuse or modification of the product. Further, the warranty does not cover Acts of God, such as fire, flood, hurricanes, and tornadoes.

Ring Engineering shall not be liable for any incidental or consequential damages caused by the breach of any express or implied warranty or condition. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration to the duration of the above warranty. Ring Engineering disclaims all other warranties or conditions, express or implied statutory or otherwise. Some states or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitation on how long an implied warranty lasts, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

> To obtain warranty service contact Ring Engineering at:
> Email: info@ringengineering.com
> or Phone (219) 322-0279
> to get a return authorization and return instructions.

If your Ring Engineering product is not covered by warranty, or has been damaged, an estimate of repair costs or replacement costs will be provided to you for approval prior to servicing or replacement.