

intelliGen iRC Main Control Board Firmware Update Instructions

Latest Firmware Version for Each iRC Board Part Number:

- For part number 28918003 – version 01.07.0679 (Firmware file: PR01070679.CSF)
- For part number 28918001 or 28918002 – version 01.06.0651 (Firmware file: PR01060651.CEF)

Note: For iRC Boards that have firmware version 01.02.0242 or older, update the firmware to version 01.03.0362 first and then run the update again to get to the latest version.

Firmware Update Using USB Drive:

USB Drive Requirement:

- USB Size: 32GB or smaller
- USB File System Format: FAT32
- Note: Some generic brand of USB flash drive may not be supported.

1. Go to website www.intelliGencontrols.com/resources
2. In the Firmware Updates section, click the “**download icon**” to download the latest firmware file for the iRC control board part number.
 - a. Download **iRC_PN_28918001_28918002.zip** file for iRC part number 28918001 and 28918002.
 - b. Download **iRC_PN_28918003.zip** file for iRC part number 28918003.
3. Go to the “**Downloads**” folder on your computer and look for the firmware zip file name “**iRC_PN_xxxxxxx.zip**”.

Note: x represents the iRC control board part number.
4. Unzip the firmware file by double click the zip file and up-zip.
5. Plug an USB drive (less than 32GB) into a computer and navigate to the drive via Window File Explorer. The USB drive typically labeled (D:) or (E:) drive.
6. Create a folder named “**firmware**” in the root directory of the USB drive. Example, D:\firmware
7. Copy the un-zipped firmware files in the USB Update folder **PRxxxxxxx.CSF** for part number 28918003 or **PRxxxxxxx.CEF** for part number 28918001 and 28918002 to the “**firmware**” folder.

Note: the iRC control board will automatically recognize the latest file version to use.
8. On the intelliGen local user interface, press the “**Home Button**” twice and then turn the knob to navigate to the “**USB OPERATION**” menu. Press the knob to enter.
9. Use the knob to scroll to the “**FIRMWARE UPDATE**” option and press the knob to “**Execute**”.

10. Enter the **Expert PIN (default is 999999)** and press the knob to submit. (If the control is not in 'Service' mode, the iRC will automatically enter service; this process can take up to 2 minutes and the iRCUI will display "Entering Service Mode... please wait")
 11. Press the knob again to start the update process.
 12. The iRCUI will display "**Checking FW File...**" as it searches the flash-drive for an appropriate firmware file.
 13. The iRCUI will display: "**FIRMWARE UPDATE Install vxx.xx.xxxx?**"
 14. If the displayed firmware version is correct, press the Knob to initiate install.
 15. The iRCUI will display "**UPDATING FIRMWARE**" followed by a status message indicating update progress.
 16. Once update is complete, iRCUI will go blank and automatically restart. Once the iRCUI goes blank, it may take several minutes for the board to restart. This process can be expedited by power cycling the 24V power on the iRC.
 17. Update should now be completed, to confirm the updated firmware version, press the "**Home Button**" twice and press the knob to enter the "**MONITOR**" menu.
 18. Turn the knob to go to "**iRC SW VERSION**" menu. The updated version number shows on the 2nd line of the display.
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Firmware Update Via Local Network:

iWC Webserver Card or MSC Multi-system Control Card required to update via local network.

1. Go to website www.intelliGencontrols.com/resources
2. In the Firmware Updates section, click the "**download icon**" to download the latest firmware file for the iRC control board part number.
 - a. Download **iRC_PN_28918001_28918002.zip** file for iRC part number 28918001 and 28918002.
 - b. Download **iRC_PN_28918003.zip** file for iRC part number 28918003.
3. Go to the "**Downloads**" folder on your computer and look for the firmware zip file name "**iRC_PN_xxxxxxx.zip**".

Note: x represents the iRC control board part number.
4. Unzip the firmware file by double click the zip file and up-zip.
5. Connect the computer to the local network the intelliGen system is connected to.
6. Open a browser and type in the IP address assigned for the intelliGen system to access the webserver page. The IP address can be found at the local user interface in sub-menu CONNECTIVITY/IP ADDRESS & SUBMASK/IPv4 ADDRESS.

Note: For systems have firmware version 01.02.0242 or older, the IP address can be found on the local user interface in the “General Settings” menu.

7. From the webserver page, navigate to the “**General Settings**” page and scroll down to the firmware version section.
 8. Click the “**Choose File**” button and follow the pop-up windows to navigate to the Downloads folder on the computer where **the .hash and .zip firmware files** are located in the **Local Network Update folder**.
 9. Select both the .hash and .zip files and follow the steps on the screen to execute firmware update.
 - a. **For iRC main control board update**, these two files needed:
INTELLIGEN_RCB_xx_xx_xxxx.hash
INTELLIGEN_RCB_xx_xx_xxxx.zip
 10. After the firmware update completed, the new firmware number shows on the screen as confirmation.
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Firmware Changelog:

- **Version 01.07.0679 for PN 28918003**
 - Enhanced product load mode during lead-lag control
 - Enhanced low battery alert detection to minimize false alerts.
 - Fixed incorrect date displaced.
 - Enhanced A2L refrigerant setup and display with Refrigerant Detection System (RDS).
- **Version 01.07.0651 for PN 28918003**
 - Added Manual EXV Control to assist with more efficient troubleshooting.
 - Enhanced Webserver Usability for a more intuitive user experience.
 - Enhanced Service Mode to address related issues and improve reliability.
 - Added A2L Refrigerants Support for upcoming transition to low GWP refrigerants.
(Important Note: While intelliGen now supports A2L refrigerants, this does not automatically make your system an A2L-compliant system. You must still ensure your equipment is rated and designed for use with A2L refrigerants.)
- **Version 01.06.0651 for PN 28918001 and 28918002**
 - Added Manual EXV Control to assist with more efficient troubleshooting.
 - Enhanced Webserver Usability for a more intuitive user experience.
 - Enhanced Service Mode to address related issues and improve reliability.