Continental Access

A Napco Security Group Company

# uniVerse ® (CICP2100/CICP2100S)

# Ethernet Adapter Programming Guide

# (For use with UniverseFinder Utility V1.2.0.0 or later)

**Revision A**

**Date: 05/22/2019**

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**IMPORTANT INFORMATION - MUST READ**

1) The **CardAccess.UniverseFinder** utility is used to **Discover** a Universe controller (CICP2100 or CICP2100S) and configure the ethernet settings.

2) The Universe Finder contains a new NLM Configuration Setup screen along with the previous web configuration utility. To use the new NLM Configuration Setup screen, you must be using ethernet firmware version 12.7.8 or later. If you are using ethernet firmware version 12.6.8 or earlier, you must use the Web configuration portion of the utility to update the ethernet firmware.

3) It is recommended to update the ethernet firmware to version 12.7.8 or later.

4) A DHCP enabled router is recommended to provide an IP address to the CICP2100/CICP2100S Network Adapter. The CICP2100/CICP2100S network adapter defaults to DHCP mode.

5) If you have older ethernet firmware and are required to use the Web portion of the utility, you will need a computer with a supported web browser. The supported web browsers are Chrome and Internet Explorer (Chrome is recommended).

6) The computer with the **CardAccess.Universe Finder.exe** utility must be on the same subnet as the IP address provided by the DHCP enabled router or by an APIPA address.

   **Very Important**: To **RESET (clear)** any previously programmed IP address information, you must install a jumper (apply a short) across the J3 jumper on the Ethernet Interface board while cycling power to the CICP2100/CICP2100S. This will default the network adapter back to the default DHCP mode. After the CICP2100/CICP2100S powers up, YOU MUST remove the jumper from J3 after 5 secs. J3 is the two pins closest to the cutout in the PCB (Refer to Appendix C).

7) The older versions of ethernet firmware did not support APIPA. Without a DHCP enabled router, and no support for APIPA, it could be very difficult to initially discover the CICP2100/CICP2100S. The support for APIPA started with Ethernet firmware version 12.6.8.

# Scope

This document contains information regarding the programming of the CICP2100/CICP2100S ethernet network adapter using the **Universe Finder** utility. The **Universe Finder** utility will discover the CICP2100/CICP2100S. The V 1.2.3.x or later utility contains a new NLM Configuration Setup screen along with the older Web configuration utility. Both portions of the new utility are used to view the contents of the network adapter and to program in a static IP address, subnet mask, gateway, Baud Rate and Port. By default, the CICP2100/CICP2100S network adapter defaults to DHCP.

# Prerequisites

DHCP enabled Router

Mac Address of the CICP2100/CICP2100S Ethernet Network Adapter

A computer with a supported browser (Chrome or Internet Explorer) if using the web utility.

**Universe Finder** utility V1.2.3.0 or later (used with ethernet firmware 12.7.8 or later.

Ethernet Network Adapter Firmware version 12.7.8 or later

# CICP2100/CICP2100S Network Diagram

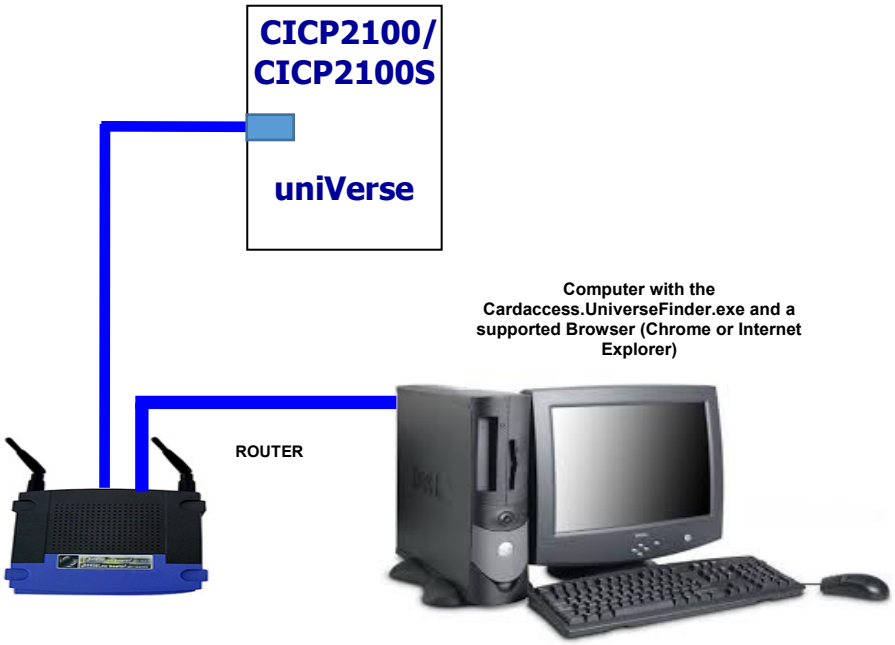



**Figure 1**

# Getting Started

1. Using an Ethernet cable, connect the CICP2100/CICP2100S network adapter to a DHCP enabled router (refer to figure 1).

2. Power up the CICP2100/CICP2100S. The CICP2100/CICP2100S will default to DHCP mode, and will request and obtain an IP address from an available DHCP server. If a DHCP server is not found and the latest Ethernet firmware is in the CICP2100/CICP2100S, an APIPA address should be assigned to the CICP2100/CICP2100S.

# Programming using NLM Configuration Setup screen (Firmware 12.7.8 or later)

1. Launch the **CardAccess.UniverseFinder.exe** version 1.2.3.x or later utility to discover the CICP2100/CICP2100S.

2. Upon launching the utility, the **uniVerse Controller (CICP2100/CICP2100S) IP Search** screen will display.

3. On this screen, select “CICP2100/CICP2100S” and click **Discover** (refer to Figure 2).

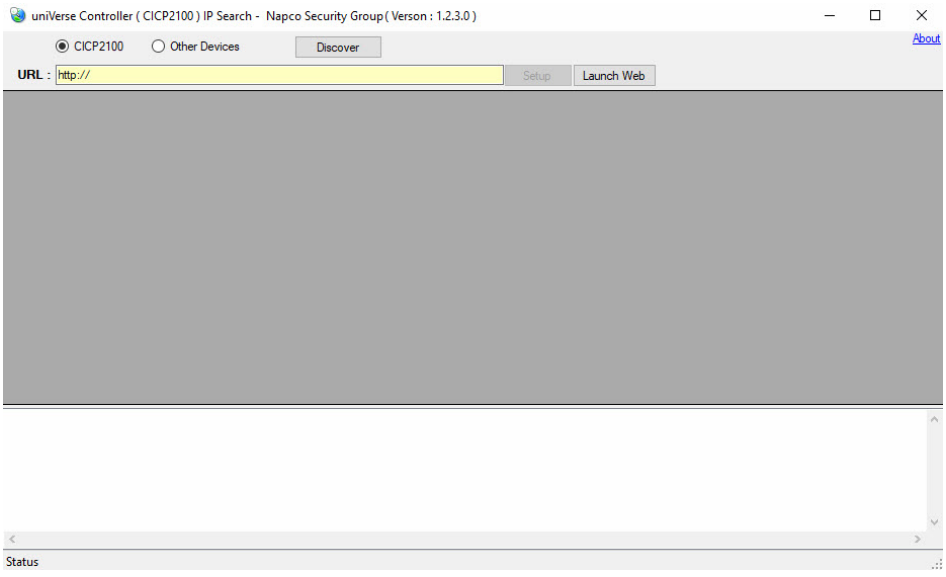



**Figure 2.**

4. Upon clicking the **Discover** button, the middle of the screen will display the devices discovered. Each device will display the Mac Address and IP Address of the devices found (refer to Figure 3).

Note: The status bar will also display the number of devices found **(n device(s) found)**.

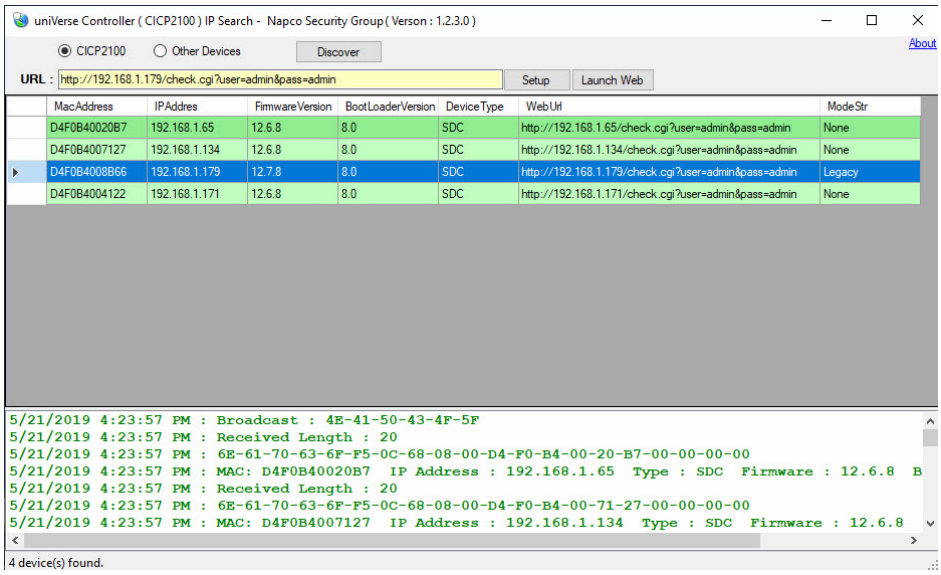



**Figure 3.**

5. Select your device in the list (refer to Figure 4).

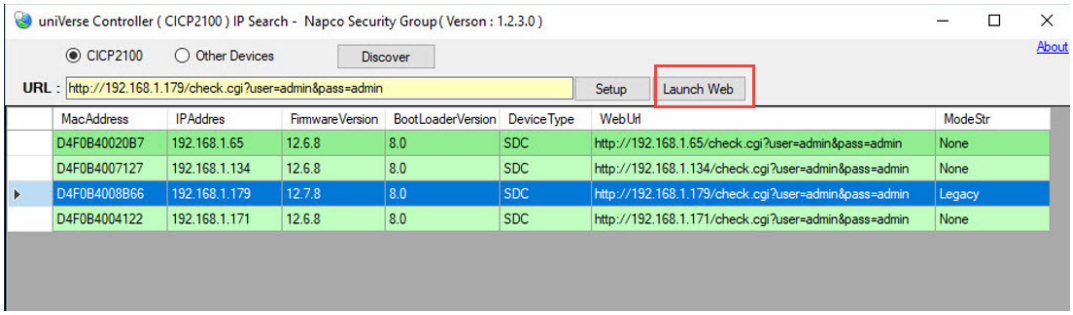



**Figure 4.**

6. Once selected, double click the device to launch the NLM Configuration Setup page (refer to Figure 5).

**Note**: The settings on this screen will be the same settings available in the Web utility.

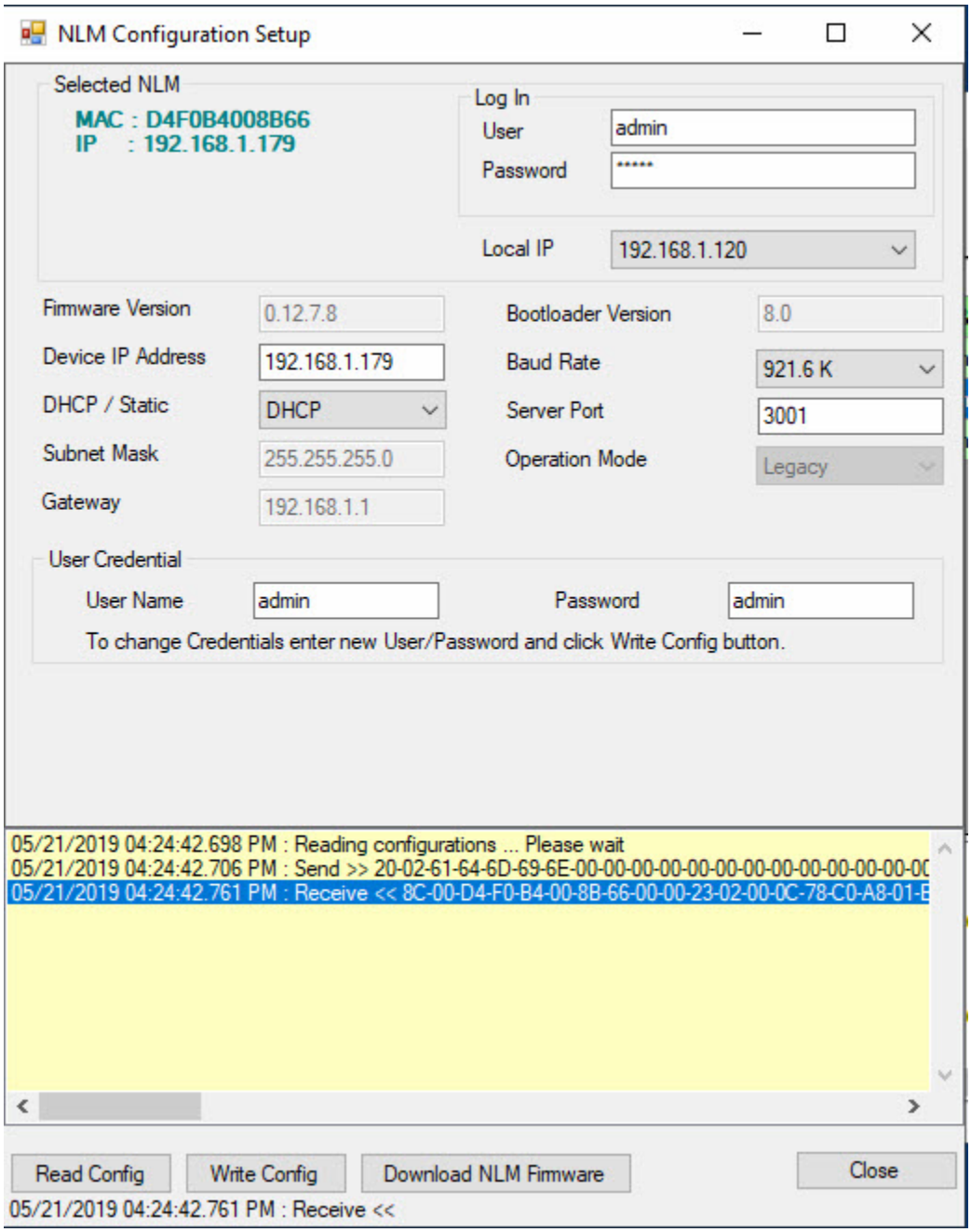



**Figure 5.**

### Logging into the NLM Configuration Setup page

7. The log In credentials might populate by default. If they are not, type in the following (refer to Figure 6)

   User = admin
   Password = admin

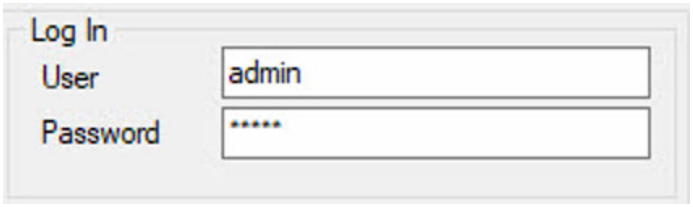



**Figure 6.**

### Download NLM Firmware

8. To download updated NLM Firmware, click **Download NLM Firmware** button (refer to Figure 7).

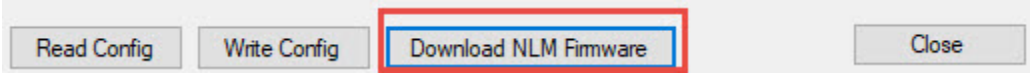



**Figure 7.**

9. Navigate to the Firmware folder and select the latest ethernet bin firmware file. Click **Open** (refer to Figure 8).

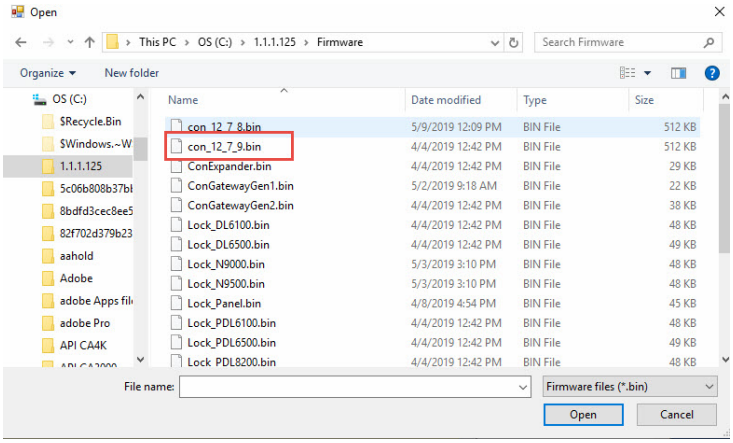



**Figure 8.**

10. Upon clicking Open, the firmware file will be downloaded and can take a few minutes. Upon the completion of the Firmware download, a **Firmware Updated Successfully** message will display (refer to Figure 9).

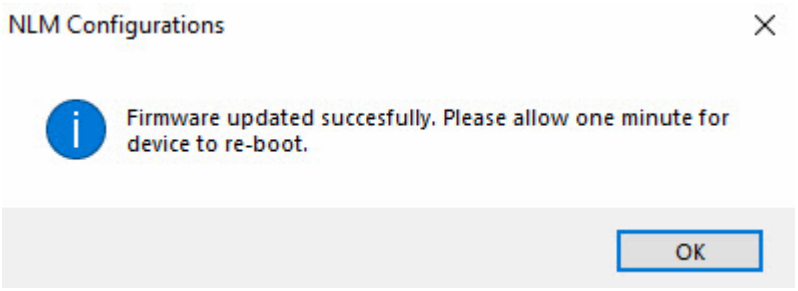



**Figure 9.**

**View the Selected NLM information**

11. After a successful launch of the **NLM Configuration Setup** page, view the Select NLM information. If the correct MAC address is displaying, this confirms you are viewing the correct device (refer to Figure 10).


**Figure 10.**

**View the Device IP Address information**

12. By default, the Device IP Address will be DHCP (refer to Figure 11). If it displays DHCP, you must program in a Static IP Address. The IP Address of the device must never change. Please contact the Network Administrator for the static IP information.

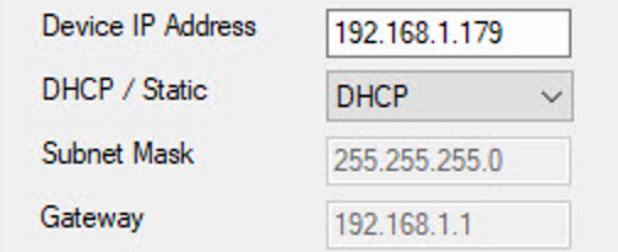



**Figure 11.**

**Programming in a Static IP Address, Subnet Mask and Gateway**

13. To program in a static IP Address, select **STATIC** in the DHCP/Static dropdown list.
14. Type in the Static IP Address, Subnet Mask and Gateway.
15. Upon entering the Static IP information, click **Write Config** button.

**Note:** For our demonstration, we will use a static IP address of 192.168.1.190 (refer to Figure 12).

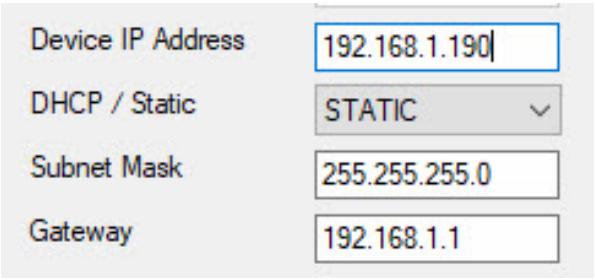



**Figure 12.**

**Programming in a Baud rate, Port number and Operation Mode**

16. Select a **Baud Rate**. The default is 921.6K.
17. Change **Server Port** number. The default is 3001.
18. The **Operation mode** will be Legacy for Universe controllers.
19. Upon entering the Baud Rate and Server Port number, click **Write Config** button.

**Note:** For our demonstration, we will use the default baud rate and port number (refer to Figure 13).

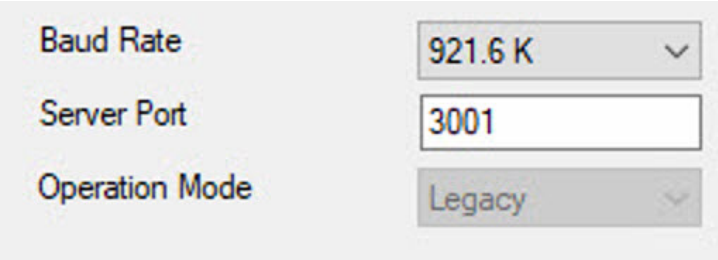



**Figure 13.**

**Resetting Login credentials for Universe Finder utility (Optional).**

**Note**: Refer to **Appendix A** for instructions on defaulting the credentials to **admin** and **admin**.

20. To change the User Name and Password, enter them in the following screen and click **Write Config** button (refer to Figure 14).

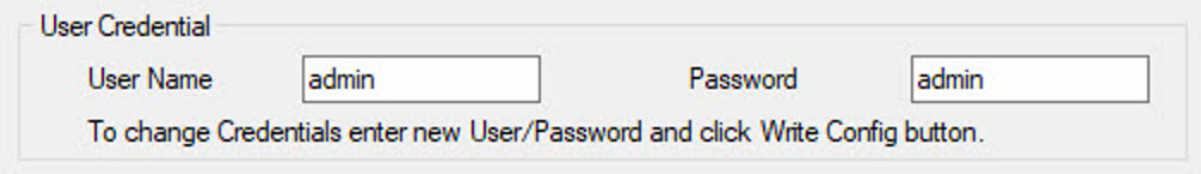



**Figure 14.**

# Programming using the Web utility (Ethernet Firmware 12..6.8 or earlier)

1. Launch the **CardAccess.UniverseFinder.exe** version 1.2.3.x or later utility to discover the CICP2100/CICP2100S.

2. Upon launching the utility, the **CICP2100/CICP2100S IP Discover** main screen will display.
3. On the main screen, select “CICP2100/CICP2100S” and click **Discover** (refer to Figure 15).

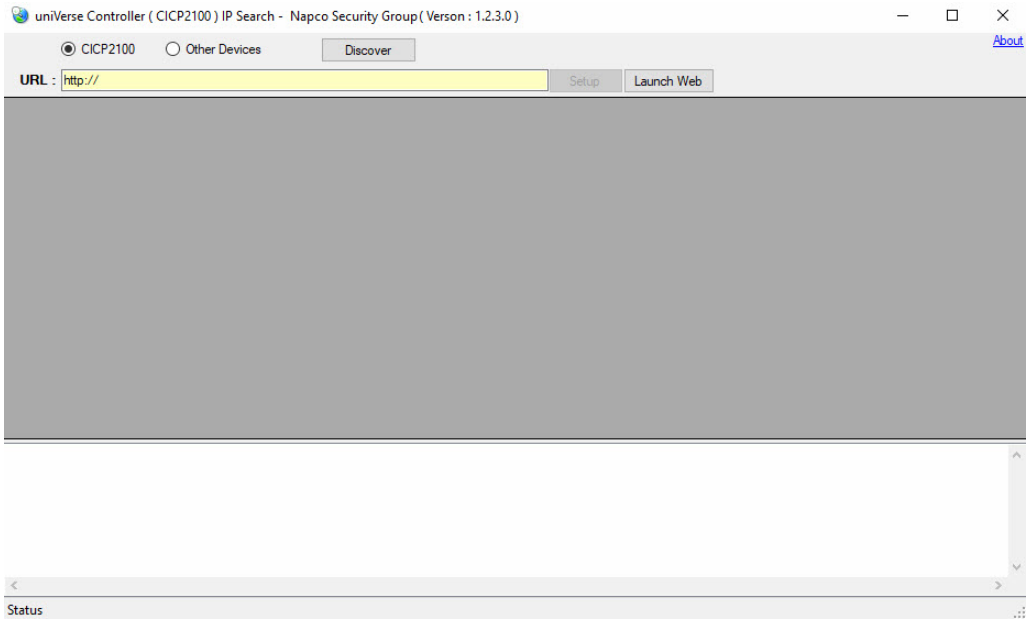



**Figure 15.**

4. If the device is found, the middle of the screen will display the mac address and IP address of the devices found. (refer to Figure 16).

   **Note**: The status bar will also display the number of devices found (**n device(s) found)**.

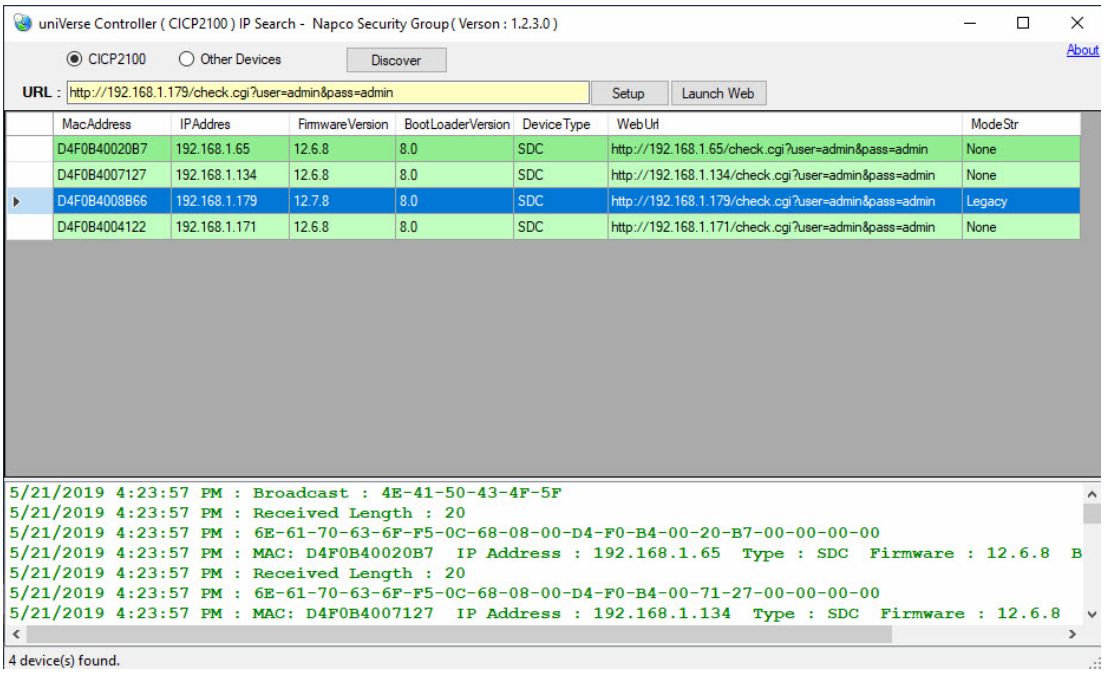



**Figure 16.**

5. At this point, select your device in the list. Once selected, you must launch the **Configuration Web Interface** by clicking the **Launch Web** button (refer to Figure 17).

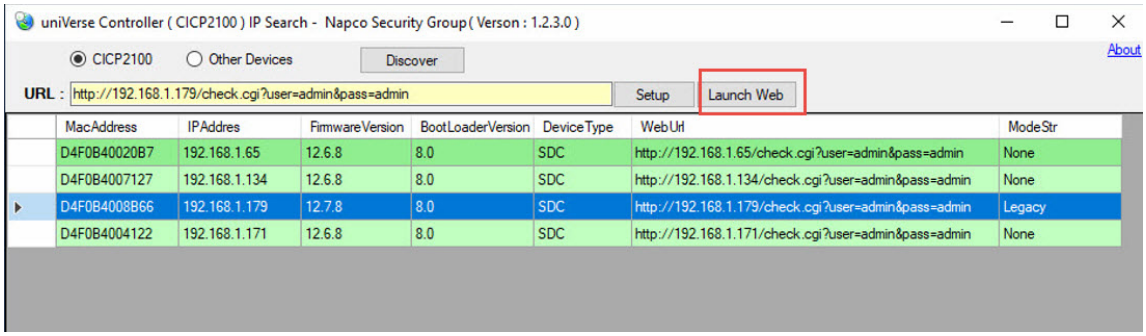



**Figure 17.**

**View the current Network information**

6. After a successful launch of the **Configuration Web Interface,** the main page displays as per below (refer to Figure 18). View the current network information including the **Firmware Version, Device IP and Device Mac.** If the correct MAC address is displaying, this confirms you are viewing the correct device. Verify the IP Address displaying is a Static IP Address. If not, program in a static IP address. The IP address must also be programmed into the CardAccess software and must never change.

7. If a different IP address needs to be programmed in, perform the following steps.

   **Note**: As previous mentioned, the Firmware version should be 12.6.8 or earlier to use the web configuration utility. It is recommended to use the Web utility to update the firmware to 12.7.8 or later.

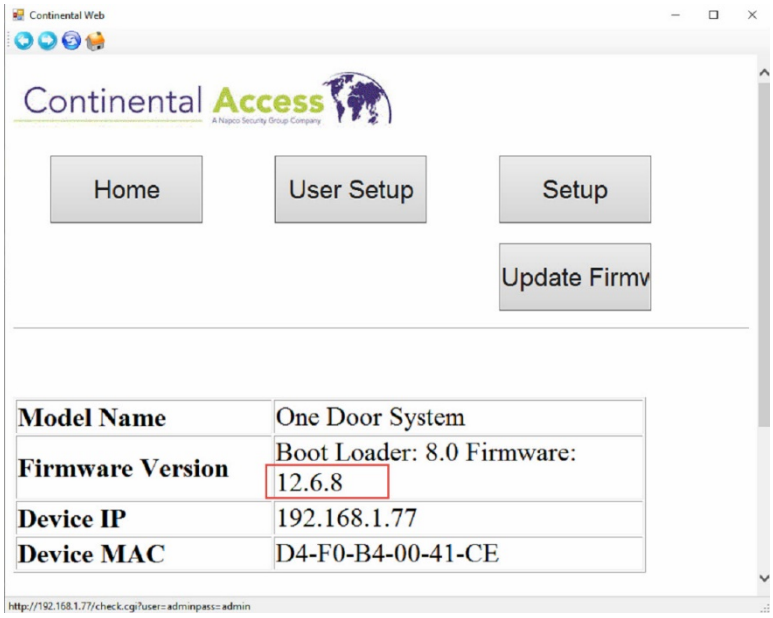



**Figure 18.**

**Programming in a static IP Address, subnet mask, gateway, baud rate and Port number.**

8. As previously mentioned, the CICP2100/CICP2100S network adapter defaults to DHCP and should obtain an IP address from a DHCP server or be assigned an APIPA address. This IP address must be programmed into the CardAccess software, and must never change. To prevent it from changing, it is recommended to program in a static IP address into the CICP2100/CICP2100S network adapter.

9. To program in a static IP Address, click **Setup** at the home page (refer to Figure 19). The **Setup** screen displays with an IP Address, Subnet Mask and Gateway. Select **Use Static IP** and type in the static IP Address, Subnet Mask and Gateway (refer to Figure 19).

10. Select the desired baud rate (refer to Figure 19).

11. Select the desired port number (refer to Figure 19). Note: It is recommended to leave it at port 3001.

12. Click **Save**.

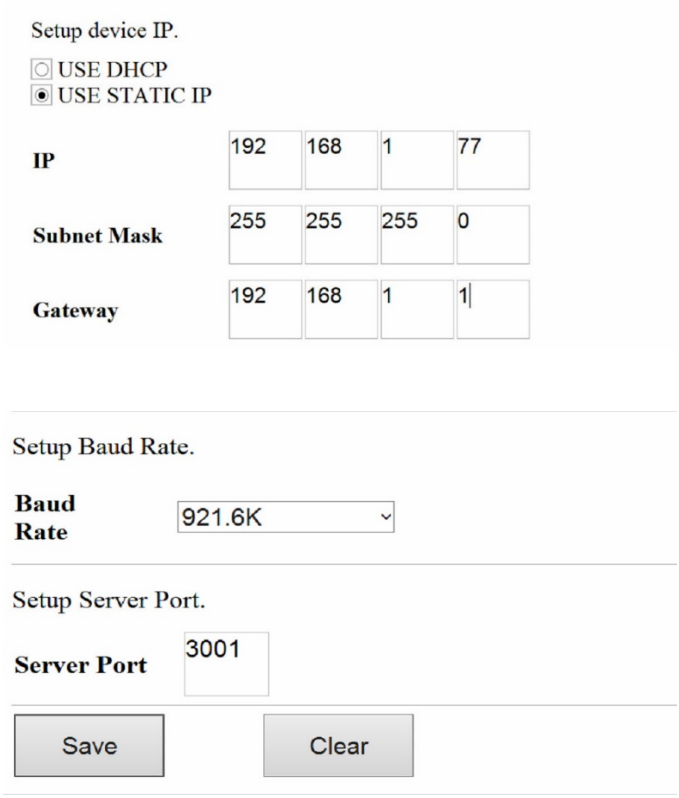



**Figure 19.**

**Resetting Login credentials for Universe Finder utility (Optional).**

**Note**: Refer to Appendix B for instructions on defaulting the credentials.

To change the Log In credentials, select “Change password” (refer to Figures 20 and 21).

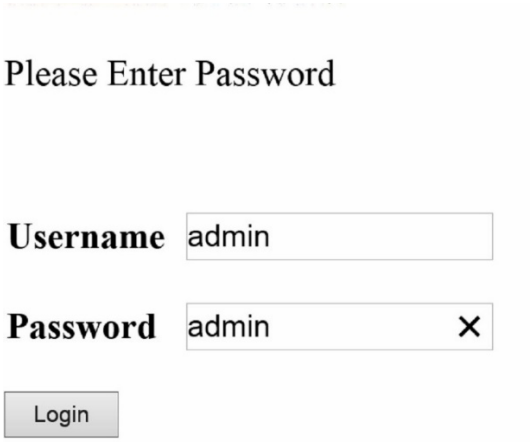



**Figure 20.**

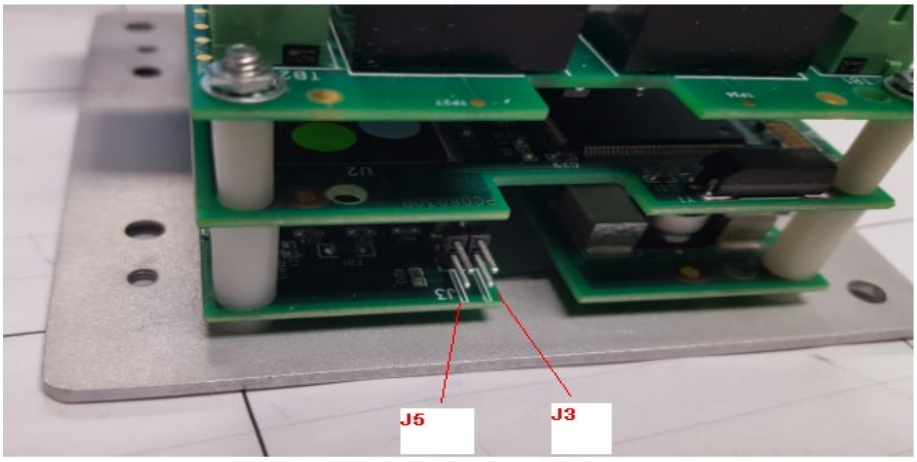

**Figure 21.**

# APPENDIX A

**Resetting IP Address and ethernet settings and defaulting back to DHCP**

If the Universe Finder utility fails to find the CICP2100/CICP2100S, there might be an incorrect IP address already programmed into the Ethernet Network adaptor that is on a different subnet. To clear any previously programmed IP address information, you must install a jumper (apply a short) across the J3 jumper on the Network Interface board while cycling power to the CICP2100/CICP2100S. This will default the network adapter back to the default DHCP mode. After the CICP2100/CICP2100S powers up, YOU MUST remove the jumper from J3 after 5 seconds.

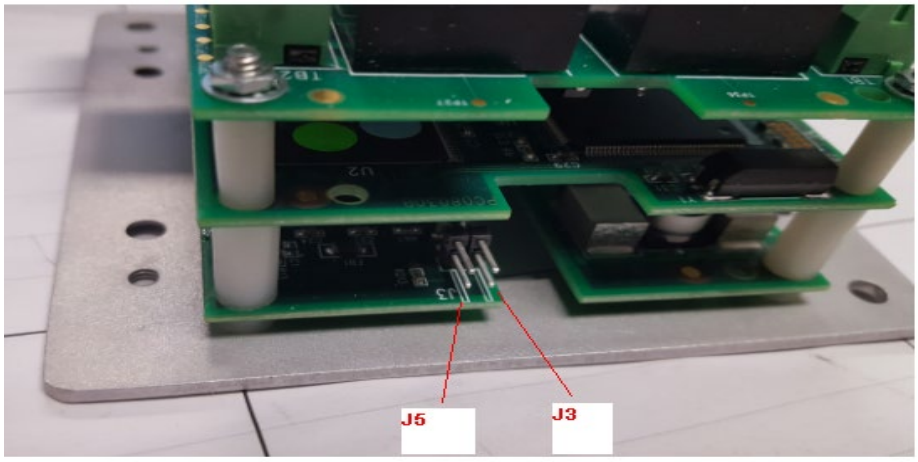
Note: J3 is the two pins closest to the ethernet cable cutout in the board. Disregard any silkscreen references to J3. You must apply a short across these 2 pins. A jumper is not provided.



# APPENDIX B

To default the **Log In credentials** back to the default credentials, you must install a jumper (apply a short) across the **J5 jumper** while cycling power to the CICP2100/CICP2100S. After the CICP2100/CICP2100S powers up, YOU MUST remove the jumper from J5 after 5 secs. This procedure will default the Username back to “admin” and Password back to “admin”.

Note: J5 is the two pins furthest from the ethernet cable cutout in the board. Disregard any silkscreen references to J5. You must apply a short across these 2 pins. A jumper is not provided.




**THE END.**