GSI AC

Technical Notes: LAN Setup and Configuration

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Revision 1.2

Products Affected	GSI
Type	Setup and configuration
Description	Instructions for setting up and configuring remote connection for Galileo and Galstar controllers.

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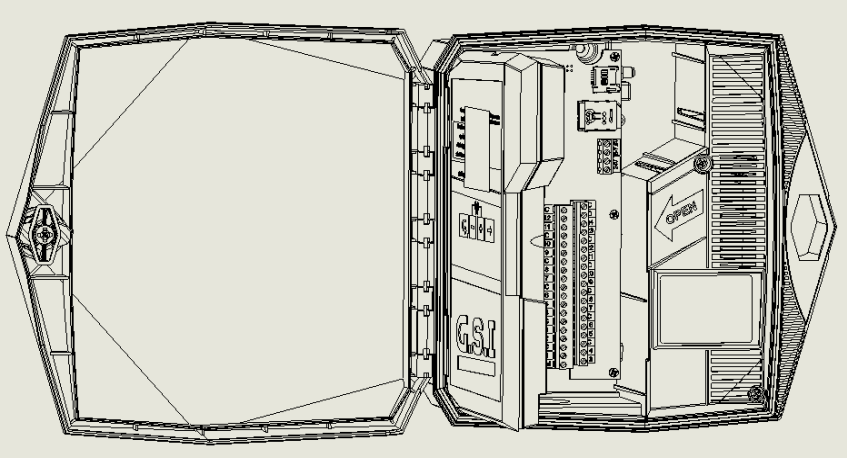
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Setting up and Configuring LAN Communication

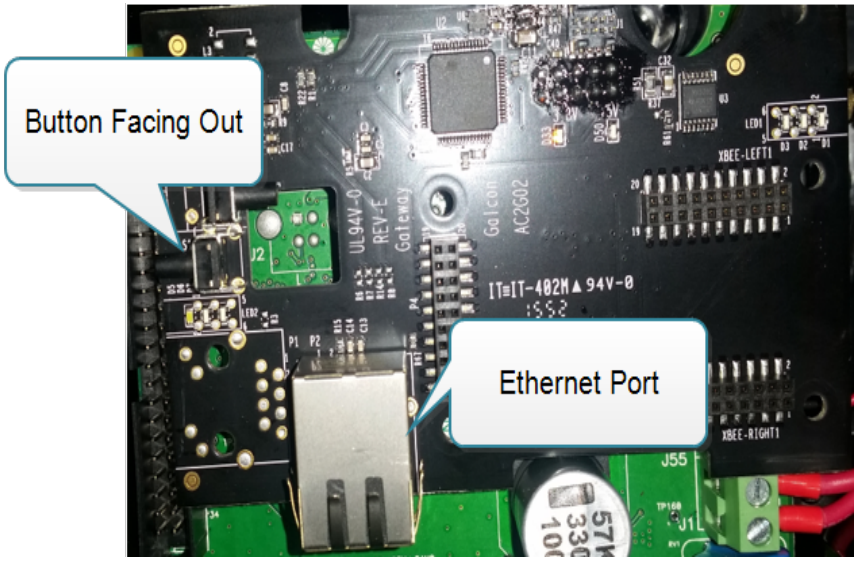
This document describe how to set up and configure LAN communication for GSI AC controllers.

Step 1: Connect LAN Cable and Power

1. Open the controller cover and swing the out the control panel.

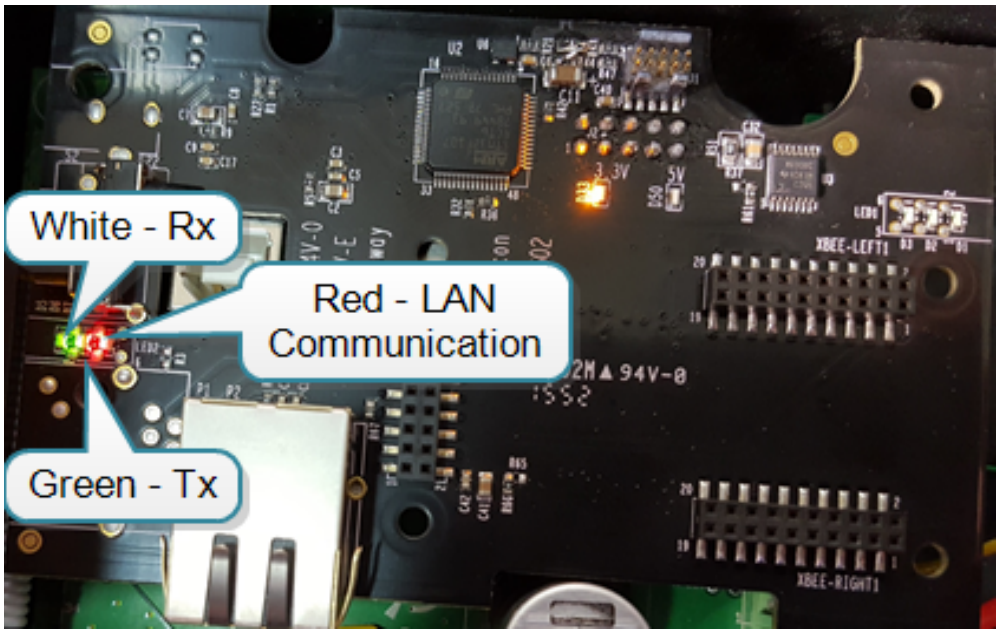


2. Connect a LAN cable to the Ethernet port on the communication card and connect the other side to the PC.

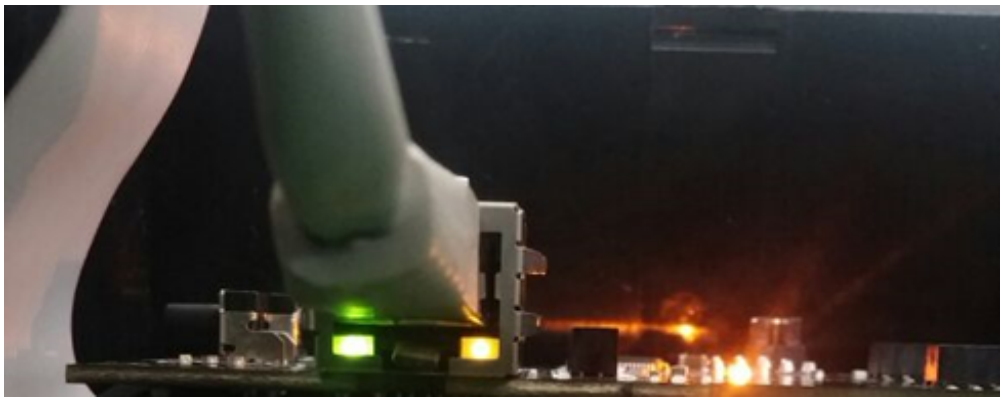


3. Connect the controller to a power source.
4. Verify proper connection with the controller:

a. On the card:
   - LAN communication (Red) LED is on.
   - Rx LED (White) and Tx LED (Green) are on.



   - Verify that LAN cable LEDs are on:

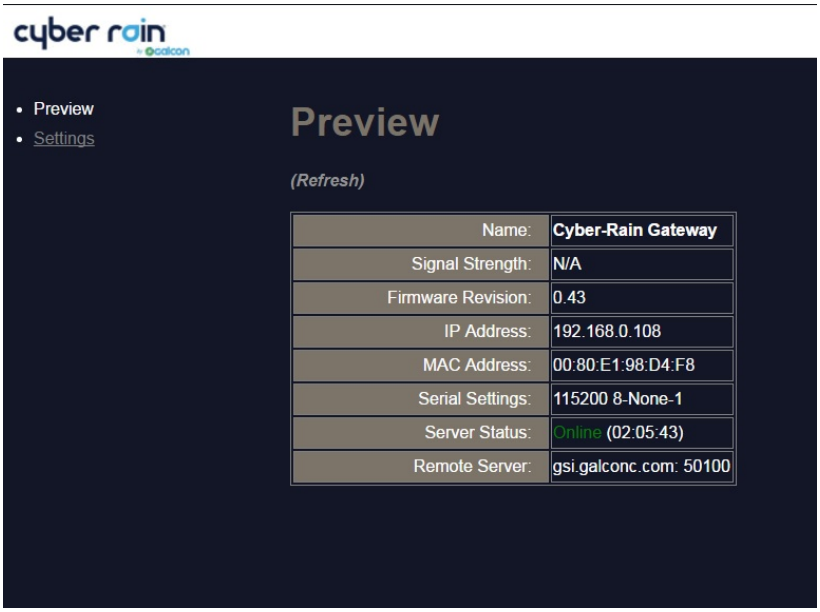


b. On the GSI server, you can now browse to: http://gsi.galconc.com.

c. If the communication is not stable (not connected at all times), go to My Computer > Network > Devices > Gateway.

   The Cyber-Rain Gateway page is displayed.

   Verify that the clock is running and the page displays the same data as shown in the picture below.

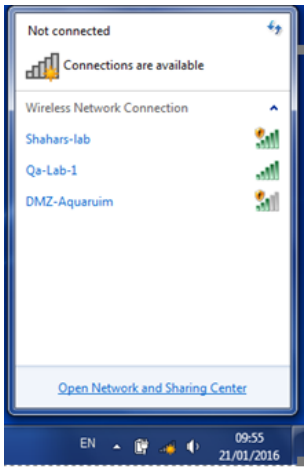


If the above verifications are not successful, continue to the following step to configure the PC communication settings.

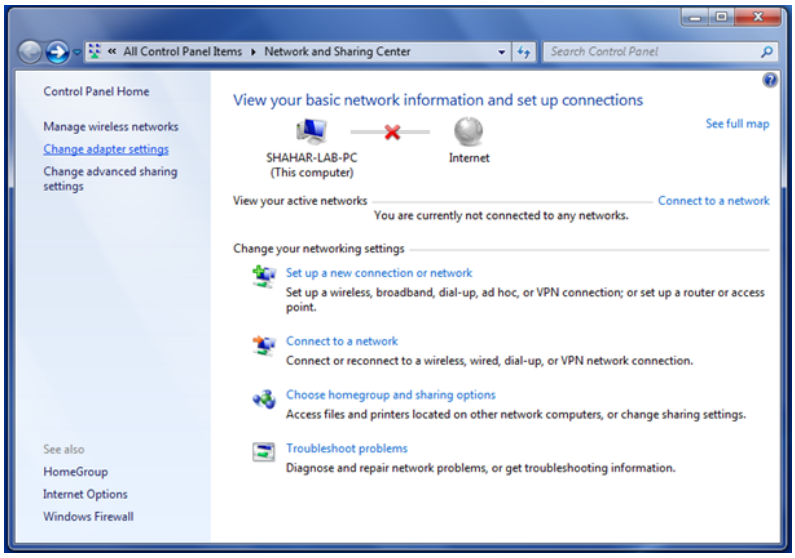
Step 2: Configure the PC Communication Settings

Perform this step only if the checks at the end of the previous step are not successful.

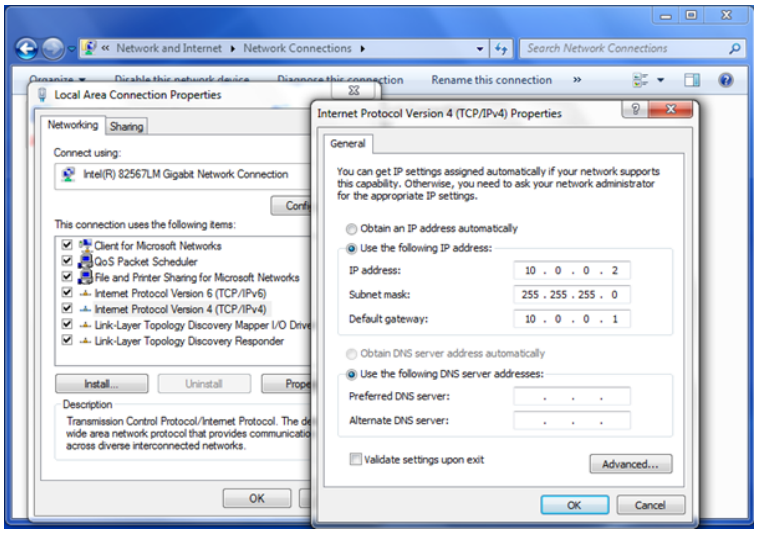
1. Right-click the network icon at bottom right corner and select **Open Network and Sharing Center**.



2. Click **Change Adapter Settings**.



3. Right-click **Local Area Connection** and select **Properties**.
4. In the Properties window, double-click **Internet Protocol Version 4**.
5. In the Internet Protocol Properties window, type in the following values for the IP addresses:
   - **IP Address**: 10.0.0.2
   - **Subnet Mask**: 255.255.255.0
   - **Default Gateway**: 10.0.0.1

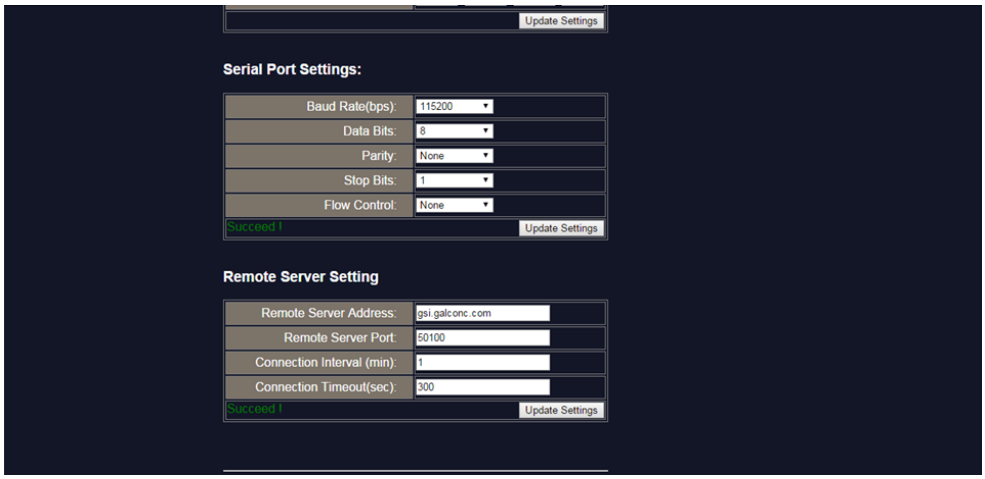


6. Click **OK** to save and close the Properties windows.
7. In the controller, press the button facing out on the card three times.
8. Open an Internet browser and type in **10.0.0.1** in the address bar.

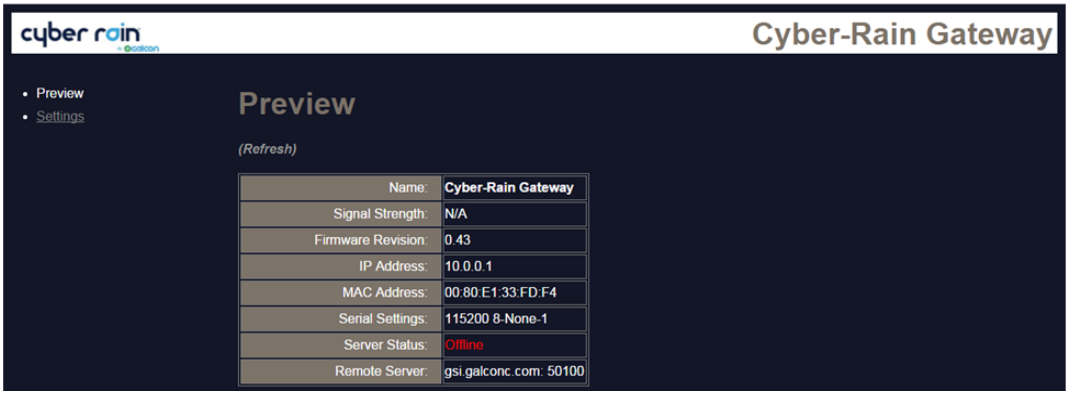
   The Cyber-Rain Gateway page is displayed.



9. Click **Settings** on the left.
10. In the page that is displayed, scroll down and modify the parameters as shown:



11. Make sure to click **Update Settings** for both Serial Port Settings and Remote Server Settings.
12. Click **Apply / Reboot** at the top of the screen.
13. Verify that the parameters were updated successfully:
    a. Click the button facing out on the card three times.
    b. In the Cyber-Rain Gateway page, click **Preview** and refresh the browser.
    c. Verify all parameters are as shown:



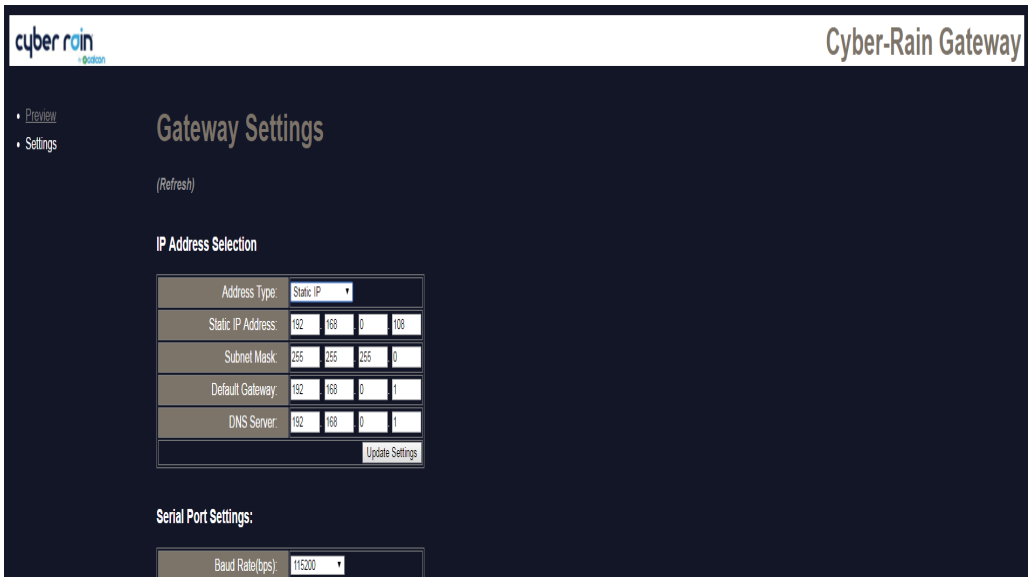
Setting up Static IP Address

Depending on the network configuration, you may need to define a static IP address for the GSI controller. Consult with your network administrator and receive the required details, then follow this procedure to define a static IP address.

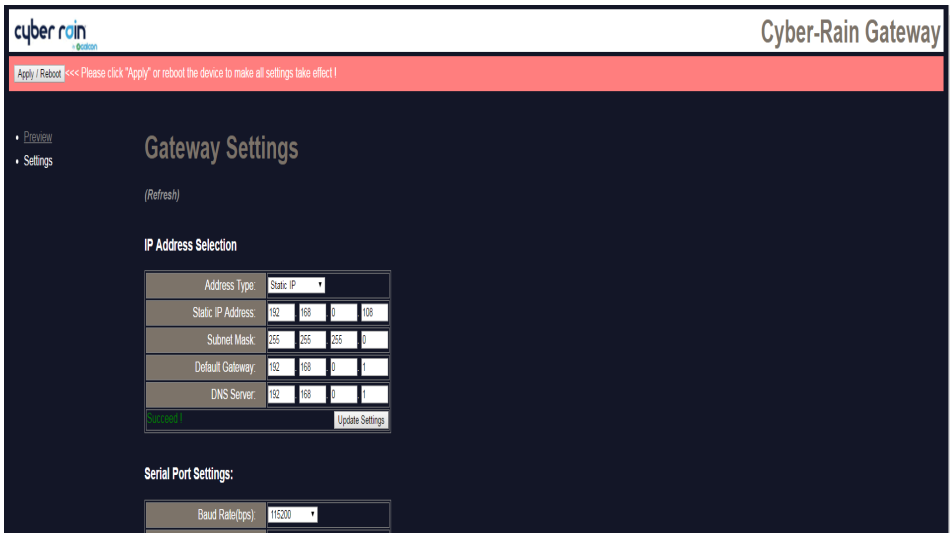
To define static IP address:

1. In the GSI PC, select Computer > Network > Cyber-rain Gateway.

   The Cyber-Rain Gateway Settings Preview page is displayed.



2. Click **Settings** and change **Address Type** to **Static IP**.
3. Modify the Static IP Address settings as defined by your network administrator and click **Update Settings**.
4. Confirm the massage that appear.
5. Click **Apply/Reboot** at the top of the page.



6. Verify that Success appears at the bottom of the **IP Address Selection** section.

