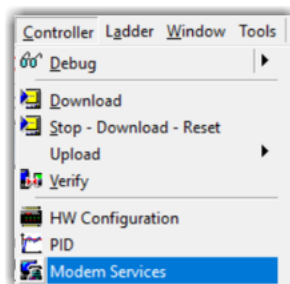October 2025

Setting Up the GSM-KIT-50 SMS Modem for Unitronics Jazz using U90Ladder
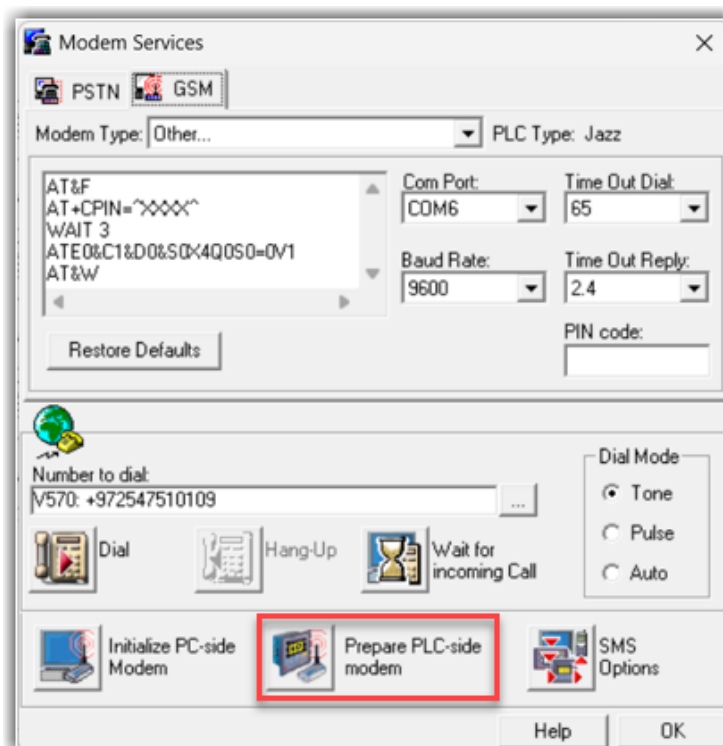
Follow the steps below to connect, configure, and test the modem.

Software Setup

1. Open **U90Ladder**.
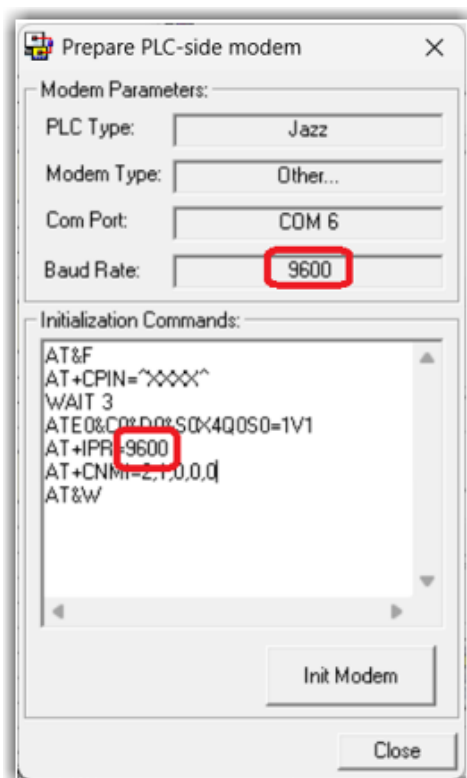2. Navigate to **Controller > Modem Services**.

3. Click **Prepare PLC-side modem**.

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4. In the AT command editor, copy and paste the **exact** following command set below. Ensure there is **no Enter (CR+LF)** after the AT&W command.

> AT&F
> AT+CPIN=^XXXX^
> WAIT 3
> ATE0&C1&D0&S0X4Q0S0=1V1
> AT+IPR=9600
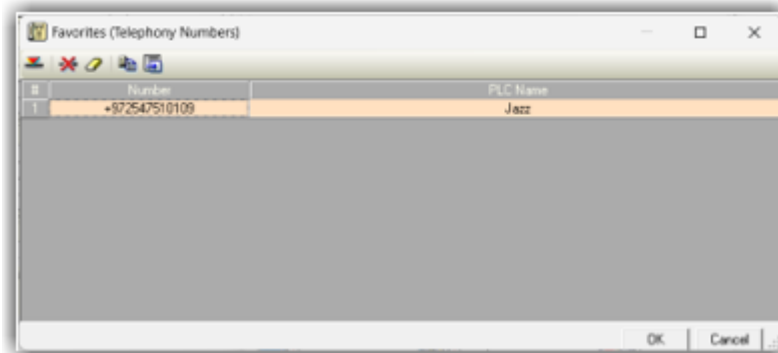> AT+CNMI=2,1,0,0,0
> AT&W

5. Ensure that the **Baud Rate** set in the modem (AT+IPR=9600) matches the **COM Port Baud Rate** configured in your project.
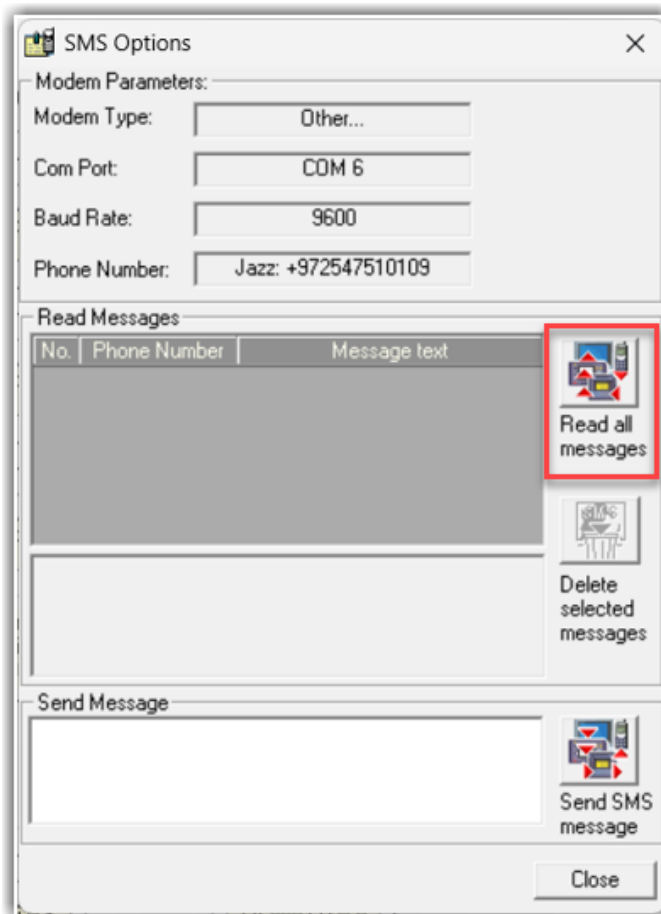

6. Click **Init Modem**. The process should complete without errors.
7. Click **Close**.

SMS Testing

1. In the **Modem Services** window, enter your phone number to test SMS communication.

2. Click **SMS Options**, and then click **Read all messages** to display any stored messages on the modem.

3. If there are messages in the list, select and delete them as needed.
5. In the **Send Message** field, type a type a short text and click **Send SMS message**.
   - You should receive the SMS at the phone number you entered.

6. Send a reply SMS from your phone to the modem's number.
7. Click **Read all messages** again.
   - The SMS you sent from your phone should appear in the list.
8. Close **SMS Options** and **Modem Services**.

✅ **At this stage, the modem is ready to be connected to and used with the PLC.**

Final Steps

1. Connect the **gray 4-wires cable** (6P4C, inverted crimping) between the MJ10-22-CS76 adapter and the PLC COM port.
2. Configure the PLC to send/receive SMS, as with any other modem.
   - Select **Other** as the modem type.