

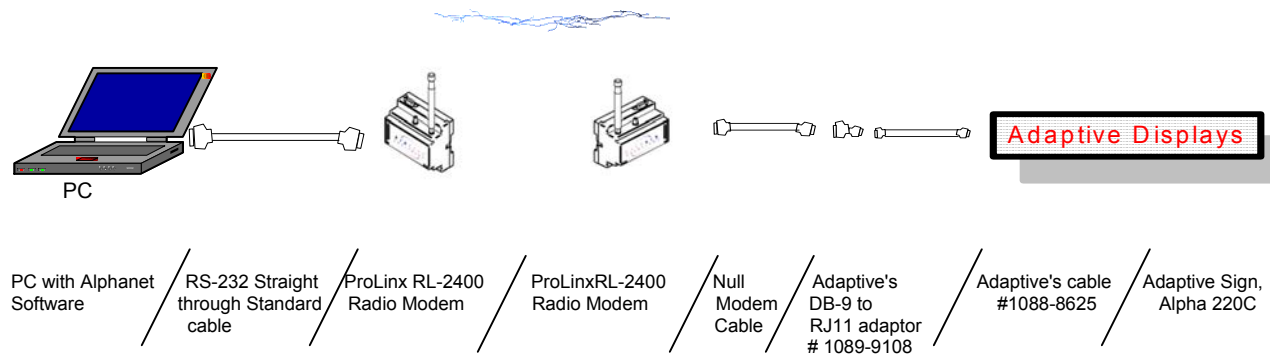
## TECHNICAL NOTE – RL2400S

### CABLING AN RL-2400S TO ADAPTIVE MICRO SYSTEMS SIGN (ALPHA 220C)

**Objective:** The following Application Connection Guide describes how to interface the Alpha 220C with the RL-2400 radio modem.

#### Adaptive Micro Systems Sign (Alpha 220C) RL-2400S Mode

The following shows the proper cable configuration in RS-232 mode when using the RL-2400 radio modems to communicate to the Alpha 220C sign. Connect the master radio to a PC with a straight through serial cable. Connect the remote RL-2400 radio modem to the Alpha 220C sign using a null modem cable to Adaptive's adaptor (DB9 to RJ11) part # 1089-9108 to Adaptive's cable # 1088-8625.



#### Configuring the Wireless RL-2400-Modem to Alpha 220C Sign

The following configuration steps establish a communication link between the RL-2400 radio modems and the Alpha 220C sign. Using the RL-2400 Setup & Diagnostic Software, first select a new network, and then select either Point-Point or Point-MultiPoint Broadcast. If a single PC is communicating with a single sign, a Point-Point network will work. If a single PC is connected to multiple signs, then a Point-Multipoint Broadcast network is needed.

Once the network has been selected, radio serial parameters need to be configured for the master and each remote radio within the network. The following radio settings were used to communicate between the PC and the Alpha 220C sign.

- Baud Rate - 9600
- Parity - None
- Data Bits - 8
- Stop bits - 1
- Handshake - None

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#### Testing Communications

The Alpha wireless sign network is ready to be tested. The following steps will determine if the radio modem connections are properly configured.

- Launch *Diagnostics* in the AlphaNet Plus for Windows software (can be downloaded from Adaptive's web site <http://www.ams-i.com/Pages/industrialautomation1.htm>).
  - Go to *Broadcast*
    - *Send message to all signs*
      - Type desired message into text box
        - Push *Send*

The radios will then send the text box message to the signs.