



# TECHNICAL BULLETIN

TBD: 000001 Rev. 1.0 SA-M-100 Modem

How to connect the Star Access2000 Control Program to the SA-2000-II Panel using a Dial up Connection

The StarAccess2000 software can be used to send commands to and to retrieve events from the SA-2000-II panel using a dial-up modem connection. This type of connection is not recommended in situations where immediate notification of alarm events is required, as the SA-2000-II panel can't be used to dial back to the host PC.

The following modem configuration has been tested. Connections using other modems duplicating this setup may also work but have not been tested.

## Configuration Tested

Equipment	Quantity
3Com US Robotics external data/fax modems model USR5686D	2
RS232 Serial Modem Cable	2
StarAccess2000 Software Configured for 9600 baud dialup connection	1
SA-2000-II panel	1 or more
RS422 to RS232 Converter if multiple panel connection	1

## Modem Setup

Both modems need to be set to communicate at 9600 baud. You need to set up both modems using a PC running HyperTerminal or a similar program. After one of the modems is set up it can be moved to the desired location where it will be connected to a phone line and either the RS422/RS232 converter or directly to the panel (single panel only).

Dipswitch Settings – The modem connected to the host computer can use factory default settings as specified in the USR modem users guide. Set the dipswitch settings to the modem to be used near the panel to the settings next to Panel below.

Modem	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
Host	Up	Up	Down	Up	Down	Up	Up	Down
Panel	Up	Down	Up	Down	Up	Up	Up	Down

## Setting Modem Speed

1. Connect one of the modems to the PC using a standard modem cable. Install the device driver for the USR modem if not already installed.
2. **Host Modem** – Open the control panel/phone and modems icon and select modem properties. Change the baud rate to 9600 from the default of 115,200. Run the HyperTerminal program and point to the Com



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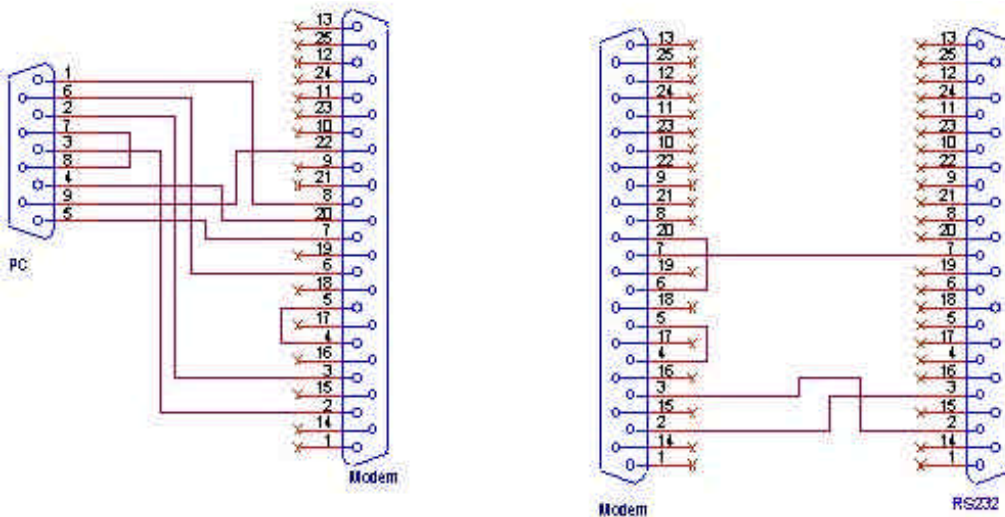
port the modem is installed on. Type ATZ and Enter from HyperTerminal. Modem should respond with OK. Type AT&W and Enter to write the baud rate to the modem registers.

3. **Remote Modem** – Connect remote modem to PC. Type ATSO=1 and Enter to force answer on first ring. Type AT&W to write settings to modem registers. Disconnect the modem and move to remote location.

## Connecting Modems to Pc or Panel

Connect the host modem to the PC using a standard modem cable. Connect to phone line.

Connect the remote modem to the RS422/RS232 converter using a standard modem cable or connect directly to the RS232 connections on the panel. If you need to make a cable for wiring directly to the panel use the diagram below for the pin-outs. For single panel systems connect pin 2 to Transmit, pin 3 to Receive and pin 7 to Ground.



Host Modem

Remote Modem

## Star Access2000 Program Setup

Make sure the connection is set to dial-up at 9600 baud using the software setup wizard. Open the dialup connection and enter the phone number for line at the remote panel location. Press the connect button.. The modems should connect at 9600 baud after the remote modem answers on the first ring. Any buffered events will be sent to the panel. You can enter any commands to send to the panel(s) just like a direct connection. If the communication line won't be left open permanently you can disconnect the connection from the same form.