Zypcom Application Note

Product: Z34-SX, Z34-RX, Z34-SE, Z34-RE

Application: V.25bis Dialing

You can use DIP switches or AT commands to set the modem for V.25bis dialing. The example below uses DIP switches and is the recommended method. This setup has been tested on IBM A/S 400 and mainframe class computers.

1. Set SW1 ON to enable switches SW2 through SW10.
2. SW2 ON for synchronous V.25bis, OFF for asynchronous V.25bis.
3. Select synchronous line rate with SW3 and SW4. Refer to User's Guide Chapter 4, Table 4-2 for synchronous line speed selections. If SW2 is OFF then SW3 and SW4 will control DTE port speed as the modem automatically adjusts line rate to the highest supported speed in asynchronous mode.
4. SW5 controls auto-answer. With SW5 ON and DTR present (the modem LED DTR will be on) the modem will auto-answer. If SW5 is OFF, auto-answer is disabled.
5. SW8 ON enables V.25bis dialing. When SW8 is enabled several modem options (&C1, &D2, &R0, &S1) automatically change to their normal state as is required by V.25bis.
6. SW9 controls the synchronous data format of the V.25bis dialer. SW9 ON data format for dialing is BSC. SW9 OFF data format for dialing is HDLC-NRZ. If SW2 is OFF then SW9 is inactive.

NOTE: For A/S400 SW9 should be off even if your data type is BSC (character oriented) since the dialer uses a bit oriented (SDLC) protocol.

7. Cycle the power on the modem so the switch settings become active.

In some cases additional options must be set on the modem. These commands can be sent before the dialing command (CRN) by using the Zypcom V.25bis command CNL. If you want to send the additional setup commands manually then follow the instructions below.

1. Return SW1 to OFF. Cycle modem power.
2. Connect asynchronous terminal to the modem (use terminal settings 38400,8N1).
3. Issue the additional AT commands required.
4. Return SW1 to ON and cycle modem power again.

NOTE: Z34-SX and Z34-SE modems with 10 number callback security will note have the V.25bis dialer. To verify that the V.25bis dialer feature is in your modem turn all DIP switches off, then power reset the modem (chapter 4). Connect an async. terminal (or PC) to the modem and send the command ATS34=0<ENTER>. Now issue the command AT&V2<ENTER>. If 10 memory locations are displayed you do not have the V.25bis feature. If stored modem profiles are displayed you do have the V.25bis dialer feature. If you need the modem firmware with V.25bis dialer feature refer to the Zypcom web site, www.zypcom.com. In the Service and Support section find the V.25bis firmware to download and then follow the included instructions to reflash the modem.
Disable V.25bis Dialing by returning all DIP switches to the OFF position and cycle modem power. If you have any problems with the above information please call Zypcom Technical Support at 510-783-2501.