The following are the USR Dual Standard settings I use on my modems. The first set are those used on the BBS. These settings allow Tele-Mac to properly answer both V.32 and HST callers. The following is the display when sending ATZ followed by ATI4 to the BBS modem.

USRobotics Courier 9600 HST Dual Standard Settings...

```
B0  C1  E0  F1  M0  Q0  V1  X1
BAUD=19200  PARITY=N  WORDLEN=8
DIAL=TONE   ON HOOK   TIMER

&A2  &B0  &C1  &D2  &G0  &H2  &I0  &J0  &K0
&L0  &M4  &N0  &P0  &R1  &S1  &X1  &Y1

S00=000   S01=000   S02=043   S03=013
S04=010   S05=008   S06=002   S07=060
S08=002   S09=006   S10=007   S11=070
S12=050   S13=000   S14=000   S15=000
S16=000   S17=000   S18=000   S19=000
S20=000   S21=010   S22=017   S23=019
S24=025   S25=000   S26=000   S27=000
S28=008   S38=000
```

B0 sends the V.32 answer sequence and if an HST calls it will fall back to HST mode.

&A2 allows me to tell exactly what type of connection has been made when I'm monitoring the board.

&B0 tells the modem to shift its DTE rate to match the DCE rate. This is necessary with the current version of RRH which isn't configurable to a fixed DTE rate. The USR modem properly reports the DCE-DCE rate in its CONNECT message rather than the DTE-DCE rate. This allows a BBS program to properly calculate download times even if the DTE-DCE rate is higher. I'm currently working on a patch to RRH's code to allow a fixed DTE-DCE rate.

&H2 sets software transmit flow control preventing possible buffer overflow, this isn't necessary since the DTE-DCE rate follows.

&I0 turns off input flow control so XMODEM protocols will work properly

&K0 turns off MNP-5 compression since almost all files are stuffed

&M4 allows proper detection and control of high speed modes

&S1 helps overcome 'stupid' wiring of some modem cables.

These are my BBS switch settings:

```
  1   2   3   4   5   6   7   8   9   10
Up x   x         x   x   x         x
Dn         x   x           x   x
```

---------- Caller's terminal settings ----------

The following settings should be used by those using Dual Standard modems with Red Ryder 10.3. Communication between terminal program and modem always occurs at 19200 bps regardless of modem to modem connection rate.

USRobotics Courier 9600 HST Dual Standard NRAM Settings...

```
DIAL=TONE   B0  F1  M1  X3
BAUD=19200  PARITY=N  WORDLEN=8

&A2  &B1  &G0  &H2  &I0  &J0  &K1  &L0
&M4  &N0  &P0  &R1  &S1  &X1  &Y1

S02=043   S03=013   S04=010   S05=008
```

```
 S06=002   S07=060   S08=002   S09=006
 S10=007   S11=070   S12=050   S13=000
 S15=000   S19=000   S21=010   S22=017
 S23=019   S24=025   S26=000   S27=000
 S28=008   S38=000
```

These are my terminal switch settings:

```
  1   2   3   4   5   6   7   8   9   10
Up     x       x       x   x           x
Dn x       x       x           x   x
```

Note: switch settings are different for the auto-answering BBS modem.

Pay particular attention to the differences between my setup and USR's default settings. Your manual explains how to change the NRAM settings using the &W command.

By using this setup my modem is forced to connect V.32 mode which is more efficient than HST mode.

When everything is setup properly, if you send the modem ATZ followed by ATI4 you should get the following:

USRobotics Courier 9600 HST Dual Standard Settings...

```
 B0  C1  E1  F1  M1  Q0  V1  X3
 BAUD=19200  PARITY=N  WORDLEN=8
 DIAL=HUNT   OFF HOOK   TIMER

 &A2  &B1  &C1  &D0  &G0  &H2  &I0  &J0  &K1
 &L0  &M4  &N0  &P0  &R1  &S1  &X1  &Y1

 S00=000   S01=000   S02=043   S03=013
 S04=010   S05=008   S06=002   S07=060
 S08=002   S09=006   S10=007   S11=070
 S12=050   S13=000   S14=000   S15=000
 S16=000   S17=000   S18=000   S19=000
 S20=000   S21=010   S22=017   S23=019
 S24=025   S25=000   S26=000   S27=000
 S28=008   S38=000
```

I hope the above information is useful.
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