

AN001 - Application Note

Dialling Loggers using Conexant Modems

Issue 1 JJM 25/01/2007

Connection Problems

When dialling SHM Loggers from PCs fitted with integral modems using later Conexant chipsets, the modems will not establish connection with the logger modem is the later "CT5" type. The earlier "TDC" type of logger modem does not seem to be affected.

The modems attempt to synchronise, but fail in one of two ways :-

1. Reporting "NO CARRIER"
2. Reporting "CONNECT 2400 NoEC" and then almost immediately afterwards "NO CARRIER"

Conexant AC-Link (AC'97) modems

With these modems, the problem can usually be fixed by forcing the modem to use V24bis modulation.

Using Hyperterm, send the following AT commands to the modem :-

AT+MS=?	For information only - shows valid +MS parameters you can use
AT+MS=V22B	option 1 (see which works best)
AT+MS=V22B,1,300,2400	option 2
AT+MS=V22B,1,300,2400,300,2400	option 3
AT+MS?	This shows the +MS setting
AT&W	This writes the new setting to the default profile.

After you have done this, **ATZ** (modem reset command) will switch the modem to V22bis mode. This works with UCOMM etc. which always issue "ATZ" to the modem before dialling.

Conexant HSF modems

This includes modems that respond SoftK56_.... in response to **ATI3** , eg Conexant D850 56k v.9x DFC Modem.

These refuse to connect (NO CARRIER). At present there is no solution to this problem.