



ADSL Layer Testing

ADSL link layer and ATM transport layer simulation- Aurora Presto



Application Note ANPADSL-5

xDSL



CPE MODEM TESTING

CPE manufacture requires simulation of the ADSL link and ATM layer for complete link and transport layer testing. The Aurora Presto allows simulation of the ATU-C to terminate the ADSL link. Using the 10BT ethernet port it is possible to connect to a PC or Network and using the Golden modem mode of operation pass real traffic across the ADSL link. The Aurora Presto provides the following benefits:

- ADSL link layer statistics can be quickly determined.
- Modem activation and training sequence can be reviewed in realtime.
- ATM transport layer statistics can be quickly reviewed.

The Trend Aurora Presto ADSL service tester can be set to terminate the ADSL link as the ATU-C and bridge traffic from ethernet to ADSL (and vice-versa). A typical test configuration using Aurora Presto as an ATU-C is shown in figure 1 and uses the Trend test equipment as follows:

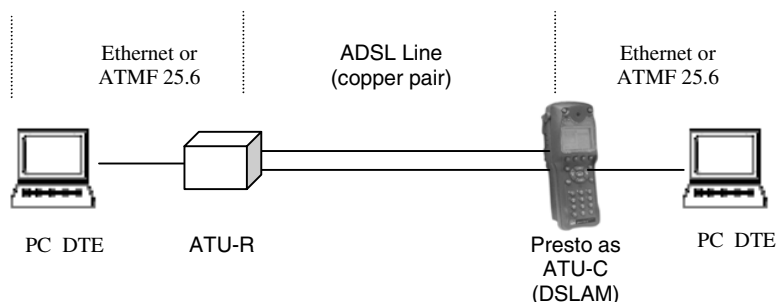


Figure 1

Figure 1. CPE modem testing using the Trend Aurora Presto

- ADSL line termination by Aurora Presto in ATU-C mode.
- ADSL link layer verification by Aurora Presto in ATU-C mode.
- ADSL link layer upstream and downstream statistics by Aurora Presto in ATU-C mode.
- ATM PVC mapping by Aurora Presto
- ATM cell stream handling by Aurora Presto
- ATM cell stream through-put statistics by Aurora Presto
- PING generation and response by Aurora Presto