

General ISDN Testing with Sonata

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Application Note ANSON_1

Testing the World's Digital Networks



TrendCommunications

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·ISDN Service Test Suite

For technicians wishing to check the quality and provisioning of an ISDN PRI or BRI circuit, an automated test suite is standard on the auroraSonata. This is user configurable so only the tests that are required are run from one key press. These tests enable an engineer to quickly check teleservice and supplementary service provisioning, and perform line quality and availability tests. Results are stored in memory and can be printed out via the auroraSonata's RS232 port.

·LT Mode

In applications where the ISDN network's operation is in question, the auroraSonata can simulate the network at the LT reference point, enabling a test of the local loop and CPE. This can be applied at a switch site, determining whether an on-site visit is necessary, minimising unnecessary customer visits.

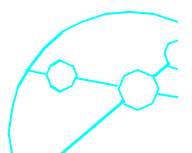
·NT Swap Out Mode

In areas where provision of the NT has been liberalised, or for PTO users, the auroraSonata will simulate on the 'U' interface, allowing the operation of the ISDN Network to be simulated. With both 'S' and 'U' interfaces fitted, the auroraSonata can replace the NT, thus proving correct NT operation. Faults due to failure or misconfiguration of the NT can be quickly identified and fixed.

·Real-time Monitor with Trace Buffer for 'S' and 'U' interface.

For intermittent problems, or ISDN protocol problems, with the appropriate interface card fitted, the auroraSonata can transparently monitor both 'S' and 'U' interfaces. Traces can be stored in memory and printed or downloaded into auroraExpert for later diagnosis. This is a powerful aid to the solving of intermittent problems. The field engineer can take the trace back to the office for consultation with senior support staff. The trace can also be used as evidence of correct or incorrect circuit operation in cases where multiple vendors of circuits and Terminal Equipment may be in conflict.

With these features as standard, it can be seen that the auroraSonata provides the field installer/maintainer with a



powerful tool for the location and diagnosis of ISDN provisioning and configuration faults.

Product Highlights

ISDN Field Tester for installation, provisioning and maintenance engineers.

Capable of withstanding a two Metre drop onto concrete.

Intuitive, window based user interface with real time tracing on screen.

Basic Rate (S/T and U Interfaces)

Primary Rate (G.703 E1)

Simulation and Monitoring of TE, NT and LT reference Points.

