

Aurora Tango ADSL

All You Need for a Rapid ADSL Roll-Out

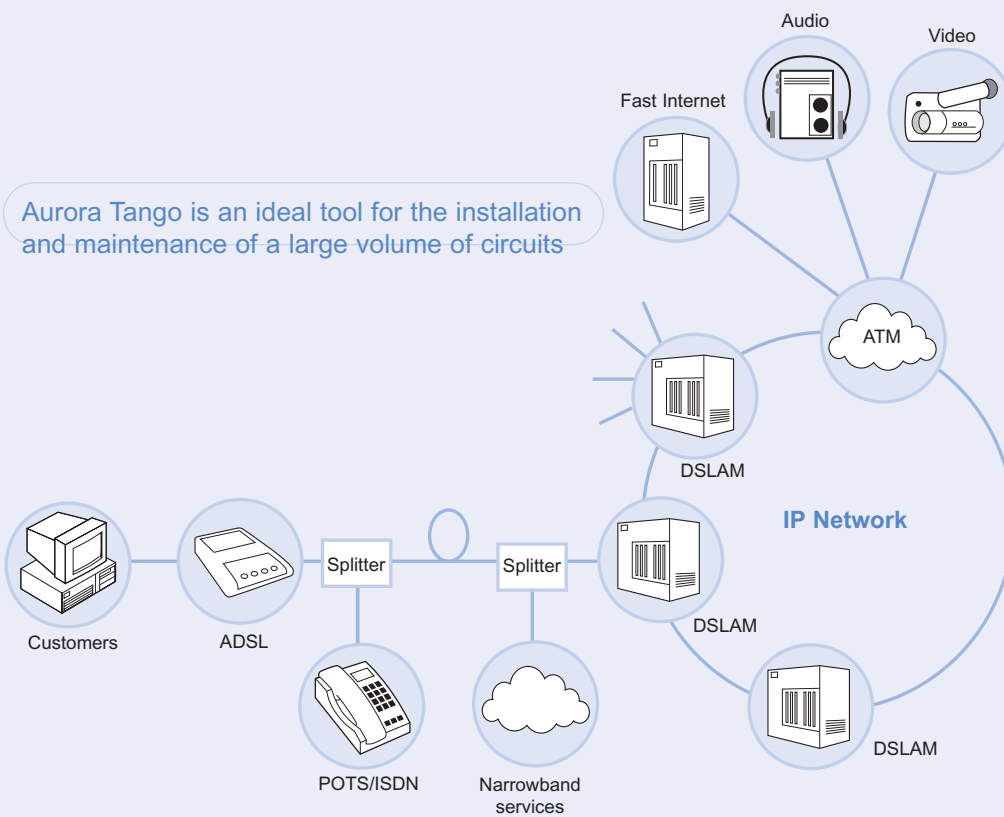


ADSL is the most cost-effective way to connect residential users and medium sized businesses using the existing copper wires. ADSL maintains the existing narrowband services while opening the new broadband market.

Aurora Tango is a modular hand-held tester designed to assist in the volume deployment of ADSL to residential and business customers.

The tester emulates an ADSL modem in ATU-R operation towards the DSLAM, confirming the promised ADSL service and analysing its performance.

Aurora Tango is an ideal tool for the installation and maintenance of a large volume of circuits



- Quick validation of the committed ADSL/POTS or ADSL/ISDN service
- ADSL2 and ADSL2+ Ready!
- One-button Pass/Fail test according to pre-programmed parameters
- Determine the QoS with a detailed report of bit rates, bit errors and physical performance
- Test the whole circuit from the customer premises beyond the DSLAM to the ISP
- Use the PDA as an optional user interface, with testing software linked to the standard PDA functions
- Training and synchronisation include time-stamped protocol, alarm trace and user-selectable time-out
- ADSL installation, verification, and confirmation of customer Service Level Agreement
- Field-upgradable hardware and software

Quick ADSL Installation

and service verification

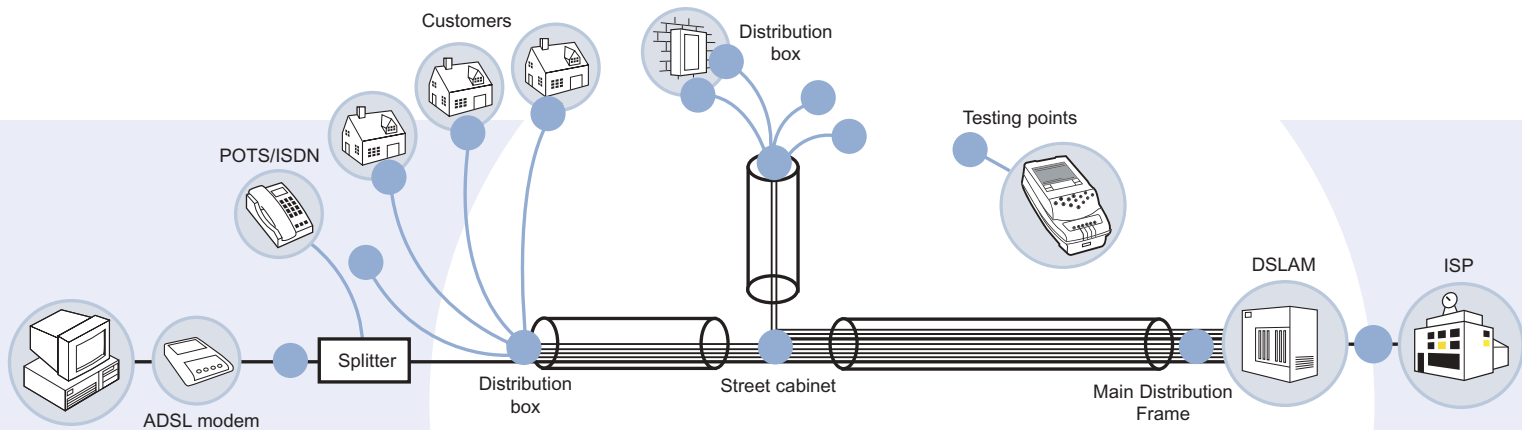
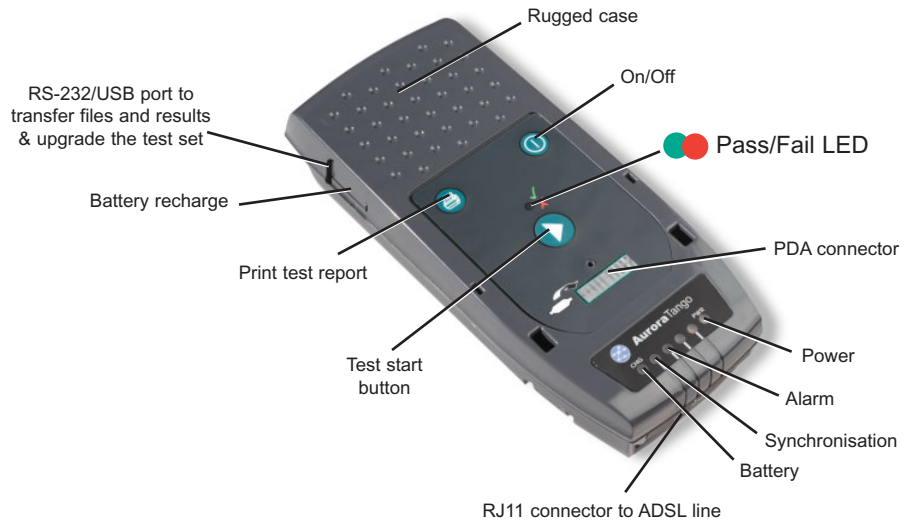
ADSL Qualification: Plug and Test

Most ADSL lines are pre-qualified by using modelling that assumes the line properties without testing any physical or electrical parameters.

Aurora Tango verifies the copper loop by means of the key digital and analogue ADSL service parameters.

Just connect to the line at the customer premises, and within seconds you will know its ability to provide the level of service required. If needed, you can test every circuit in a bundle this way until you have checked the whole loop.

Aurora Tango
UNIversal Test Engine



Service Level Agreement

ADSL service providers may offer different levels of service depending on customer requirements or commercial strategy.

Aurora Tango can generate customer-specific service test reports, showing the details of the promised ADSL service.

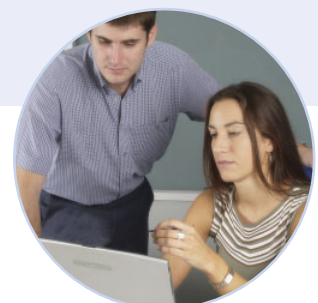
These test reports can be used as the basis of the Service Level Agreement, once signed by the customer and the ADSL service provider.

- Indoor and outdoor operation
- No modem, laptop, or electrical socket needed for a full ATU-R emulation and analysis
- Automatic tests with easy-to-interpret results
- Diagnostic information for systematic location of faults
- Test report available within seconds for on-site or later analysis
- Test set-up for any specific ADSL installation

Test Selection

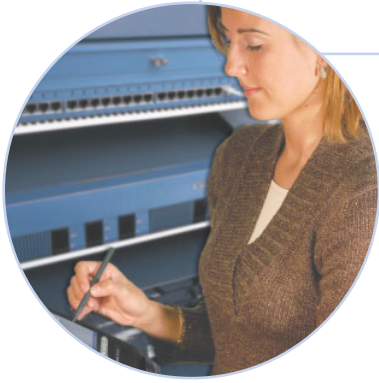
Aurora Tango can store and run a number of test profiles that make it easy to verify any ADSL installation.

You can customise the tester and define specific qualification criteria for your tests at the local exchange.



Easy Maintenance

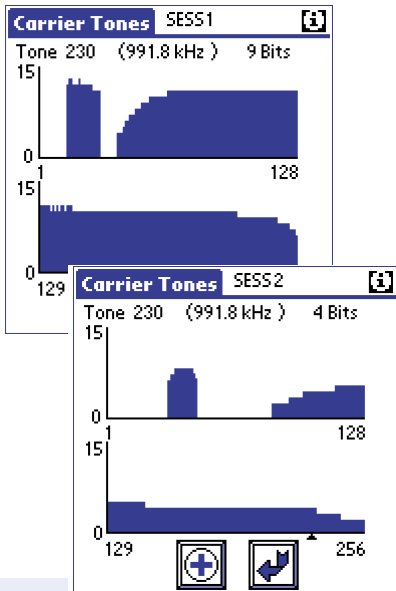
and troubleshooting



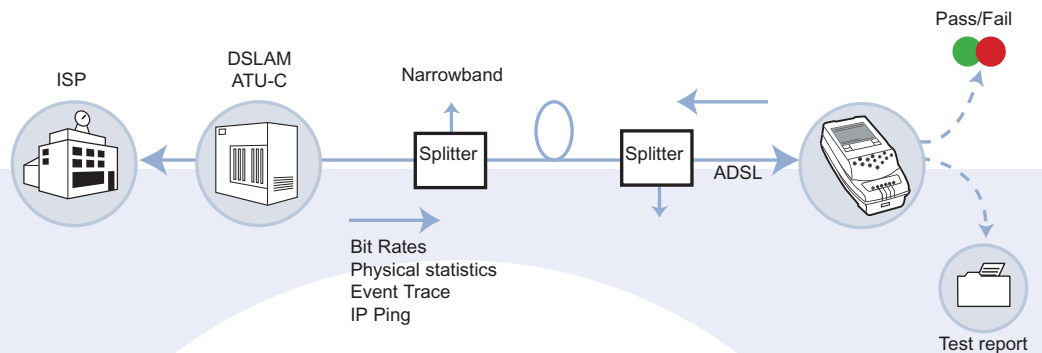
Bit Error Count

With Aurora Tango you can generate dummy cells to calculate the line bit error rate between ATU-C and ATU-R transceivers.

Bit errors can be analysed on both fast and interleaved channels, providing a count of Errored Seconds during the test period.



ADSL testing with Aurora Tango



Physical Layer Testing

Aurora Tango checks the ADSL physical layer performance, identifying any cause of reduced bit rates.

You can also analyse all the 256 ADSL DMT tones and create reports of load. With Alcatel systems, noise reports can be generated as well.

Aurora Tango's physical layer testing capabilities are completed with tone analysis, a powerful troubleshooting tool that enables you to identify faults in an instant.

- IP Ping over ADSL plus support for PPPoA and PPPoE
- Bit rates, Relative Capacity, Noise Margin, Attenuation, Output power
- Command/Response and Event trace
- ATU-C training sequence
- Up/downstream FEC, HEC and CRC counts
- Carrier tone analysis: load [bits/tone] and noise¹ [dBm/tone]
- Time-stamped protocol and event trace for easy tracking and fault identification

¹ Only Alcatel chipset

IP Ping & Trace Route

Aurora Tango can send ICMP Pings using either an IP address or URL, and you can check the way through the network with the Trace Route functionality. The tester also supports PPPoE and PPPoA for service authentication.

Time	Dir.	Event
01:02:03	R>C	Open Request
01:02:03	R<C	Open
01:02:03	R>C	Close Request
01:02:03	R<C	Close
01:02:03	R>C	Idle
01:02:03	R<C	Connect. Closed
01:02:03	R>C	Connect. Opened
01:02:03	R<C	Seeking ATU

DSLAM Synchronisation

Attach Aurora Tango to the circuit, press Start, and the tester will contact the ATU-C modem. The training phase begins once the tester is synchronised with the DSLAM.

A time-stamped trace is generated of the Command/Response sequence and other events to track the training process.

To interpret the cause of failure, just check the list of error codes.

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