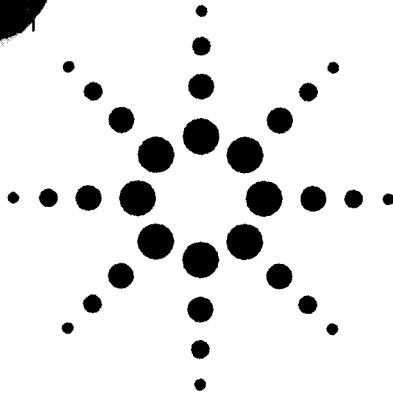
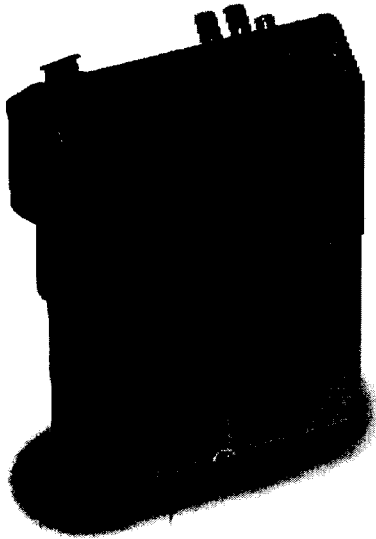


# N1625A and N1626A xDSL TMS Modules for the Agilent Service Advisor

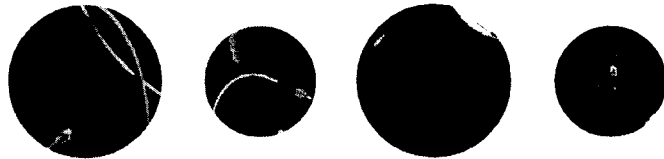


**Agilent Technologies**  
Innovating the HP Way

# Service Advisor xDSL TIMS Test Modules



## Quickly Qualify Subscriber Loop for DSL, POTS, and ISDN



**Agilent Technologies' xDSL TIMS module for the Service Advisor tablet and Telecom Toolkit is an advanced 2 MHz transmission impairment measurement set (TIMS) that provides comprehensive line qualification testing for subscriber loop circuits. The xDSL TIMS module's easy-to-use graphical interface and array of powerful line performance tools makes it the craftperson's ideal choice for xDSL, POTS, and ISDN service testing.**

The Service Advisor xDSL TIMS module is available for either ANSI (N1625A) or ITU (N1626A) applications.

### **Digital Subscriber Line Transmission Testing**

Physical layer testing on the subscriber loop is an essential part of installing digital subscriber line (DSL) services such as ISDN, ADSL, HDSL, and even POTS. Delivering these high-speed digital services over existing copper pairs requires that the line be qualified, and free from such impairments as load coils, crosstalk, bridge taps, noise, and so on.

Agilent's xDSL TIMS provides a flexible, versatile tool for evaluating outside plant, line qualifications, physical layer testing, and troubleshooting. The xDSL TIMS module can be used with the Service Advisor tablet or Telecom Toolkit undercradle. Both platforms feature one-touch software support, color graphs and plotting, and integration with related testing functions.

# Powerful Features for Full TIMS Capability

## Transmitter Frequency

- 50 Hz to 2 MHz

## Receiver Frequency

- 50 Hz to 2 MHz

## Line Impedance

### N1625A:

- 100, 135, 150, 600, 900, and 1200 ohm; Bridge mode

### N1626A:

- 100, 120, 135, 150, 600, and 900 ohm; Bridge mode

## Interface Connectors

### N1625A:

- P1/P2: Bantam or WEC0 310
- Dial: Banana and RJ-11 (butt set)
- Signaling port

### N1626A:

- P1/P2: 3-pin Siemens
- Dial: Banana jacks

## Noise Parameters

- Filters: C-Message weighting, C-Notched, 3.4 kHz Flat, 3.4 kHz Flat-notched, D Filter, D-Notched, E Filter, F Filter, G Filter
- Measurements: Noise, Noise with tone, 3-level impulse noise, Noise-to-ground, S/TD with holding tone, 23-Tone Measurements, IMD (2nd & 3rd order), S/TD, S/N, Level, EDD

## P/AR

- N1625A only

## Power Spectral Density and Power Spectrum

- Graphical display 50 Hz to 2 MHz

## AC and DC Voltage

- Measures DC tip-to-ring line voltage -204 volts to +204 volts

## Transmission Characteristics

- Gain, phase, amplitude hits
- Phase and amplitude jitter
- Dropouts

## Complex Impedance

- Measures resistive and reactive components and capacitance.

## Loop Test

- 430 ohm load simulates typical off-hook conditions. Loop current and resistance measurements performed.

## Load Coil Detector

- Detects up to four load coils.

## DC Holding Current

- Nominal 23 mA holding current mode may be selected.

## Standard Signaling

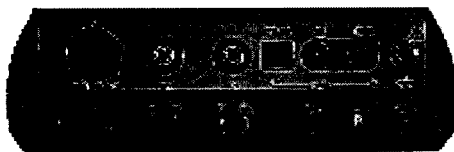
- DTMF tone generation
- MF tone generation
- Nine stored numbers
- Loop Start CI emulation

## Advanced Signaling

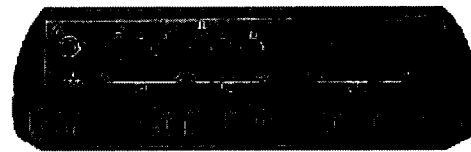
### (N1625A only; requires Opt 010)

- Trunk types: Loop Start, Ground Start, E&M I/II/III, Loop Reverse Battery
- -48 Vdc battery in CO emulation
- DTMF tone generation
- MF tone generation
- DP dialing support
- DTMF/MF tone decoding
- Signaling event log
- DC resistance
- AC voltage

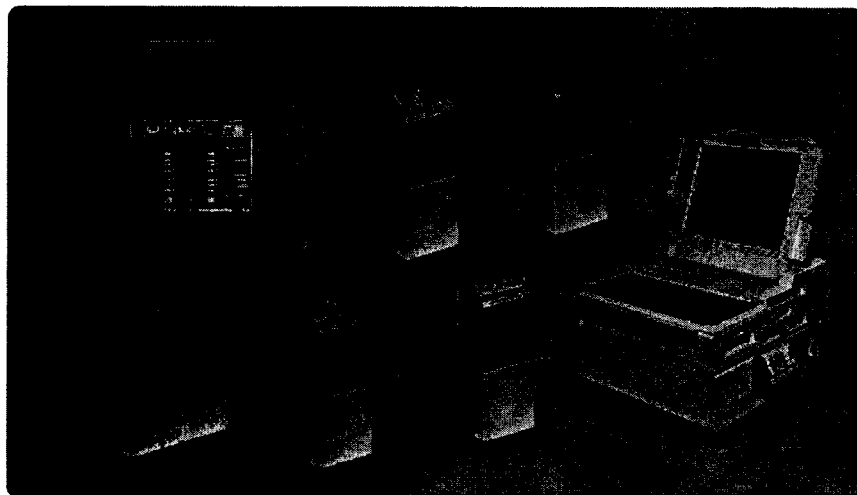
Interface connectors for N1625A



Interface connectors for N1626A



## Related Products



All Agilent test modules, including the xDSL TIMS modules, can be used interchangeably with both Agilent's Service Advisor portable test tablet and Internet Advisor PC platforms. Modules plug directly into the Service Advisor tablet or Agilent's Service Advisor Undercradle, which attaches to the Internet Advisor network analyzer.

### **N1610A Service Advisor Test Tablet**

Agilent's Service Advisor Test Tablet is a lightweight, portable platform that supports a complete range of installation and maintenance testing requirements. The battery-powered tablet features a color touchscreen, and accepts all of the single and dual-slot application modules listed below.

### **N1700A Service Advisor Undercradle**

The Service Advisor Undercradle attaches to Agilent's Internet Advisor network analyzer, allowing Internet Advisor users to share use of single and dual-slot plug-in testing modules. The undercradle allows field organizations to combine physical network and service deployment testing with the Internet Advisor's powerful, higher-layer protocol analysis capabilities.

## Ordering Information

### **N1625A 2 MHz North American TIMS Module (ANSI)**

- opt 010: Advanced Signaling option
- opt 100: WECO 310 connectors
- opt 110: Bantam connectors

### **N1626A 2 MHz ITU TIMS Module**

### **N1610A Service Advisor Test Tablet**

### **N1660A Dual DS1/0 Test Module**

Agilent's Dual DS1/0 Test Module for the Service Advisor platform simplifies DS1 and DS0 testing by providing complete analysis of line conditions and status in both directions with the touch of a single button.

### **N1640A ATM Cell Processor Test Module**

Combined with the SONET/SDH Test Module, the ATM module provides complete SONET/SDH ATM BER, QoS and VPI/VCI testing capabilities at up to 155 Mbp/s line rates.

### **N1645A SONET/SDH Test Module**

This line interface module provides connectivity and physical layer SONET and SDH testing for OC-1, OC-3c, STM-0 (optical) and STM-1(optical) lines.

### **N1629A TDR Test Module**

Agilent's TDR module provides a wide range of easy-to-use, accurate tools for locating faults or measuring span length for any type of metallic cabling, including copper twisted-pair or coaxial wiring.

For more information about Agilent Technologies test and measurement products, applications, services, and for a current sales office listing, visit our web site: <http://www.agilent.com/find/tmdir>

You can also contact one of the following centers and ask for a test and measurement sales representative.

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Test and Measurement Call Center  
P.O. Box 4026  
Englewood, CO 80155-4026  
(tel) 1 800 452 4844

#### **Canada:**

Agilent Technologies Canada Inc.  
5150 Spectrum Way  
Mississauga, Ontario  
L4W 5G1  
(tel) 1 877 894 4414

#### **Europe:**

Agilent Technologies  
Test & Measurement  
European Marketing Organisation  
P.O. Box 999  
1180 AZ Amstelveen  
The Netherlands  
(tel) (31 20) 547 9999

#### **Japan:**

Agilent Technologies Japan Ltd.  
Measurement Assistance Center  
9-1, Takakura-Cho, Hachioji-Shi,  
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