Optical Transmission Test

J2126A/J2127A Transmission Test Sets

Cut the cost of testing

Agilent Technologies

Designed to deliver Extreme Productivity Improvements (XPI)

The J2126A and J2127A transmission test sets tackle your need for speed, convenience, and capability head on. Helping you test today's network devices and technologies, including Multi Service Provisioning Platforms and Ethernet, with ease.

Three multi-rate product platforms offer tailored solutions for all line rates up to 2.5 Gb/s and all line rates up to 10 Gb/s. All platforms support SONET, SDH, T-carrier/PDH test applications and simultaneous, multi-port Ethernet testing at 10/100 Mb/s and 1 Gb/s.

For both routine and complex field applications, a broad set of additional measurement tools are available to identify problems associated with errors and alarms, signal quality and network operational performance.

XPI

You're expected to do more with less – provide results faster with fewer resources, increase network performance, boost ROI, rapidly roll out new services – deliver Extreme Productivity Improvements (XPI). Agilent XPI solutions help you drastically cut the time and cost of installing, testing and maintaining your communications networks. Together with Agilent, gain the Extreme Productivity Improvements that your business demands!

Easy access top mounted connectors

SmartTest gateway to powerful tools

Comprehensive Help

Side mounted floppy disc drive

Context Sensitive Help is provided automatically as you navigate through the user interface

Summary display provides graphical representation of test setup

Single key press access to detailed alarm results

Keypad for entering text

Simple operation via menu and arrow navigation

Side mounted
LAN (remote)
RS232 (remote)
USB (printer)

Flexible Configurations

J2126A: tests all telecom rates up to 2.5 Gb/s

J2127A: tests all telecom rates up to 10 Gb/s

J2127A: tests all telecom rates up to 2.5 Gb/s plus Ethernet testing

J2127A: tests all telecom rates to 10 Gb/s plus Ethernet testing

3 Chassis sizes offered

- Flexible configurations
- Easy modular upgrades
- Protects your initial investment

Compact, rugged and portable

- Designed for field use
- Everything under one handle

PERFORMANCE SUMMARY

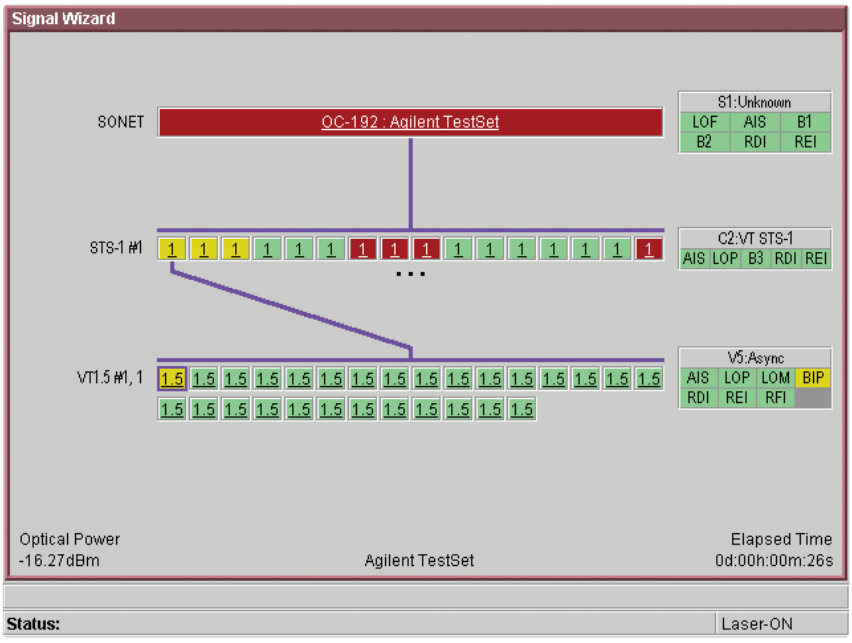
- Global test coverage SONET/SDH/DSn/PDH
- Fully integrated all-rate testing
  - 52 Mb/s to 10 Gb/s optical
  - 52/155 Mb/s; DS1/3; 2/8/34/140 Mb/s electrical
- Full range of standard and concatenated mappings
- All standard error and alarm measurements
- Optical power, electrical level, pulse mask, frequency
- APS time, pointer movements, delay
- Simultaneous all-channel testing
- Broad range of graphical results tools
- Comprehensive on-line help
- 2 year calibration cycle

- Multi-rate/Multi-port ethernet testing
  - 8 x10/100Mb/s & 2 x GbE ports
  - Physical layer and layer 2
  - Simultaneous testing on all ports

- Powerful remote control
  - Troubleshooting during installation
  - Monitoring of high value network nodes

Signal Wizard - all channel testing

Simultaneous monitoring of all STS/AU channels (up to 192) in a received SONET or SDH line signal. Also allows monitoring of all VT/TU channels in a selected STS/AU channel. Signal Wizard is an essential tool for identifying costly provisioning errors in networks containing the latest multi-service provisioning platforms.



Signal Wizard
example showing OC-192 SONET signal structure and status

The test set:

- Discovers the line rate and channel structures of any valid signal (including mixed STS/AU channel sizes).
- Simultaneously monitors for errors, alarms and pointer activity within all detected channels.
- Discovers and simultaneously monitors all VT/TU channels in up to 12 STS-1s or an AUG-4.
- Shows the type of traffic carried in each channel.
- Provides listing and searching tools for path trace messages allowing simple testing of channel routing.
- Automatically sets up the test set's Receiver to the parameter
- DSn/PDH channel scan function provides lower level payload alarm information

Ethernet Testing

Cut the time and cost of testing without compromising results integrity

The Ethernet test capability provides multi-port testing of Ethernet transmission systems. The test set has eight 10/100BASE-T test ports and two 1000BASE-X test ports. The 1000BASE-X ports use hot-swappable GBIC modules, providing flexibility in physical interface choice.

All of these test ports can be run simultaneously, giving up to ten times faster testing and more realistic loading of the network under test. Loading multiple ports in this way ensures the network performs as it would with customer traffic, giving you test results you can rely on. To further reduce your test time Ethernet testing can be carried out at the same time as SONET/SDH or DSn/PDH testing.

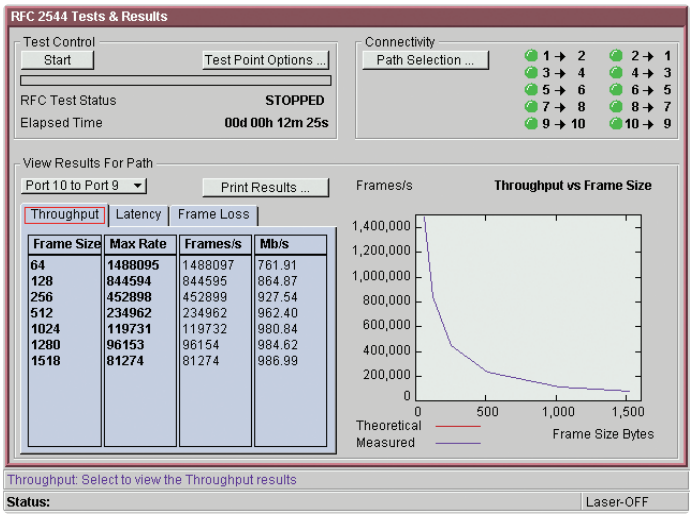
Ethernet Measurements

The Ethernet test capability quickly and easily provides the three most fundamental measures of data-circuit performance:

- Data Throughput
- Frame Loss
- Latency

Other factors which can affect the quality of service you provide to your customers can also be measured, such as:

- Errored frames
- Out-of-sequence frames
- Broadcast and Multicast frames
- Runt frames
- Jumbo Frames



Automated RFC 2544 Testing

Together with Agilent, gain the Extreme Productivity Improvements that your business demands!

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