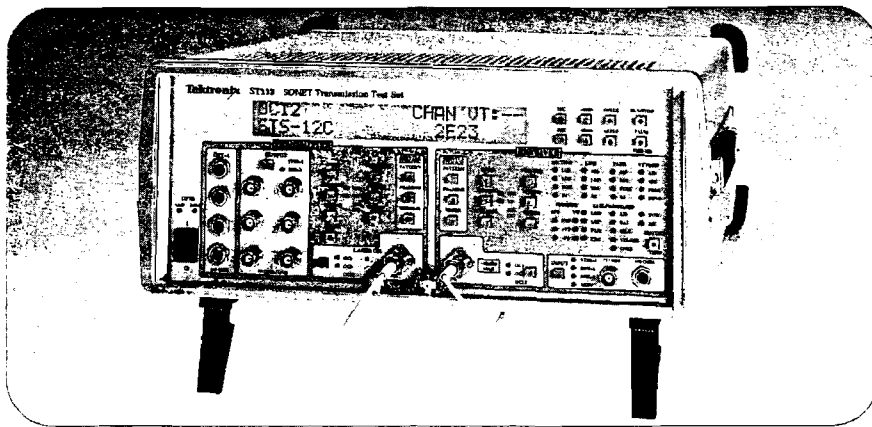


SONET Test Sets

ST112



ST112 Portable Transceiver

The portable ST112 transmission analyzer is on the leading edge of today's growing need for SONET testing. It's designed not only to support today's needs, but tomorrow's emerging technologies as well. The powerful ST112 is a compact single-unit solution for providing extensive SONET STSX-1, OC-1/3/3c/12/12c signal generation and analysis for tributary and network testing. Optimized for lab-based conformance and field-based installation testing, the ST112 extends SONET testing technology to ATM by delivering a clear channel STS-3c concatenated mapping in addition to the standard DS3 and VT1.5 mappings. The ST112 combines easy-to-use, powerful test solutions with user-upgradeable software to meet evolving SONET standards.

Rugged, Portable Design with Powerful Features

While its portable, lightweight transceiver design makes the ST112 an ideal SONET test set, its extensive DSX-1 and DSX-3 test capabilities also provide outstanding network payload drop tests. At less than 22 pounds, the ST112 is the single-unit solution for all SONET testing where portability and ease-of-use are important. Standard RS-232, GPIB and parallel printer interfaces, as well as VT100 terminal capability, provide the ST112 with complete remote control, display and printed report features.

Simple to Use

The following features make the ST112 simple to use:

- ▶ Front-panel LEDs provide instantaneous identification of the operational status and alarms

- ▶ Built-in LCD screen displays test menus and results
- ▶ AutoLink feature automatically resets receiver to match user-updated transmitter settings
- ▶ VT100 terminal interface allows easy remote access to extended menus
- ▶ Interruptible pause/resume aids completion of long test cycles

Upgradeable Software Evolve with SONET Standards

The ST112's advanced design enables the user to easily install software upgrades. This feature avoids obsolescence and keeps the ST112 on the leading edge of the evolving SONET standards.

Extensive SONET Test Capabilities

The ST112's SONET capabilities include not only optical carrier generation, but also STS-3c/12c, DS3 and VT1.5 payload generation. Additional features include:

- ▶ VT Channel Scan for testing VT mappings
- ▶ Event sync (Opt. 07) provides output signals for deriving switch timing or propagation delay from alarm conditions
- ▶ Byte synchronous payload mapping for next generation DLC testing
- ▶ Full error and alarm generation

The ST112 Receiver analyzes the incoming optical signal and displays performance-monitoring information for the optical signal and payloads.

▶ Features & Benefits

OC-1/3/3c/12/12c Framing and Payload per Bellcore and ANSI Specifications

Complete Overhead and Bit Error Rate Testing (BERT)

Extended Control and Measurement Display via VT100 and RS-232 Support

STS-3c/12c, DS3 and VT1.5 Payload Mappings

User-upgradeable Software

Unique VT1.5 Channel Scan and SONET Trouble Scan

Standalone DS1/3 Test Capability

Six DSX-3 or Six STSX-1 and Four DSX-1 Outputs

Quick Setup for Automatic Configuration of Standard Test Modes

AutoSeek (Automatic Detection of Receive Signal) and AutoLink (Receiver Follows Transmitter)

Full SPE and VT Pointer Control

Multiple Electrical Outputs for Four DS1, Six DS3/STSX-1

Access to All SONET Overhead Bytes Data Communications Channel (DCC) Add/Drop

Multiple Simultaneous Timed Alarms and Errors (for Software Regression Testing and Other Applications)

▶ Applications

SONET Network Element Testing

Loopback Testing

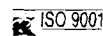
End-to-end Testing and Monitoring

Path Provisioning and Performance Monitoring

Software Regression Testing

For your local Tektronix representative see the list in the back of this catalog or outside the U.S. call: 1-503-627-1916, inside the U.S. call: 1-800-426-2200.

NOT AVAILABLE IN EUROPE.



Tektronix measurement products are manufactured in ISO registered facilities.