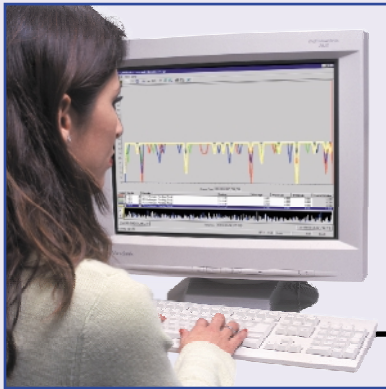


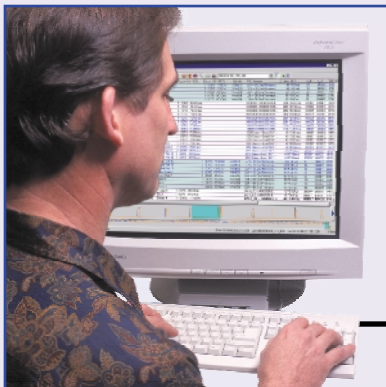
Fibre Channel Protocol Analysis

Multi-user • Multi-channel • Multi-speed



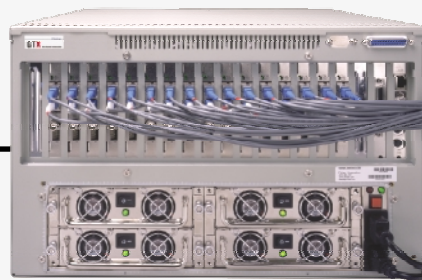
Remote User 1

Internet

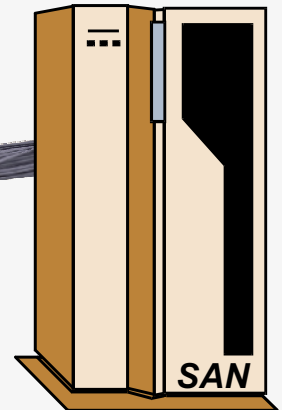


Remote User 2

- Up to eight remote users
- Network from anywhere over the Internet
- Operates at single-, double-, and mixed-rate Fibre Channel link rates.



Finisar GTX-RX



Large Storage Area Networks are being installed worldwide. Monitoring the performance of and troubleshooting these sophisticated storage systems requires powerful instrumentation operated by engineers trained in the complexities of Fibre Channel.

Whether the SAN is in the lab or anywhere around the world, the new Finisar GTX-RX family of Fibre Channel Protocol Analyzers allows you and your colleagues to monitor and debug SANs from your office over the Internet.

The GTX-RX supports eight time-correlated two-channel protocol analyzers. A massive 8 Gbyte trace memory (optional 16 Gbytes) insures that all traffic around a problem is captured. Optional GTX-SANMetrics performance analysis software will help identify and resolve performance-related problems in a SAN fabric or loop.

The GTX-RX Protocol Analysis System is compatible with the full range of Finisar Fibre Channel Instruments. Add Error Injection, Bit Error Rate Testing, and SANmark Data Generation to build sophisticated test systems.

GTX TraceView with Multi-Analyzer Systems

Configurable to meet any measurement need.

The GTX TraceView data presentation and analysis software for the GTX Fibre Channel Protocol Analyzer family is easily configurable to meet any data presentation need. Define columns with one or more protocol parameters. Make columns with multiple parameters. Move them around. Filter them for specific information. Restrict them to show only certain protocol analyzer ports. Color the text and background to highlight events or channels.

Configuring the viewer with simple mouse clicks. Save your configuration for later use.

Below is an example of one possible 16-port multi-analyzer display. Columns show traffic by analyzer port plus information about the embedded SCSI commands.

The screenshot displays the GTX TraceView application window titled "attempt to start.tgp : GTX-TraceView". The main window contains a large data table with columns for Port, OS, OpCode - Status, P/L Summary, Count, Delta Time, S_ID - D_ID, DX_ID, Bytes, and EOF. The table shows traffic from 16 different ports, with some rows highlighted in yellow and others in green. A context menu is open over the table, showing options like "Display Raw Data", "Display Interpreted", "Show Ports...", "Insert New Column", "Add to this Column", "Delete Column", "Alias Editor", and "Fibre Channel" (with sub-options for SCSI, TCP/IP, Ext Link Svcs, and SB2). A histogram at the bottom of the window shows data density by port.

Annotations on the screenshot include:

- Create new columns, add parameters, filter by port with a simple pulldown.** (Pointing to the context menu)
- Color text by port and contents.** (Pointing to the text in the table)
- Color backgrounds by port for easy tracking.** (Pointing to the colored rows)
- Bookmark events for easy identification.** (Pointing to the "Problem?" column)
- Add vertical and horizontal lines to improve readability.** (Pointing to the grid lines)
- Define one or more time columns. Time formats include linear and delta between events.** (Pointing to the "Delta Time" column)
- Histogram shows data density by port.** (Pointing to the histogram at the bottom)

For more information on the range of features available in TraceView, see the GTX-TraceView data sheet.