



# Remote Monitoring Probe Family



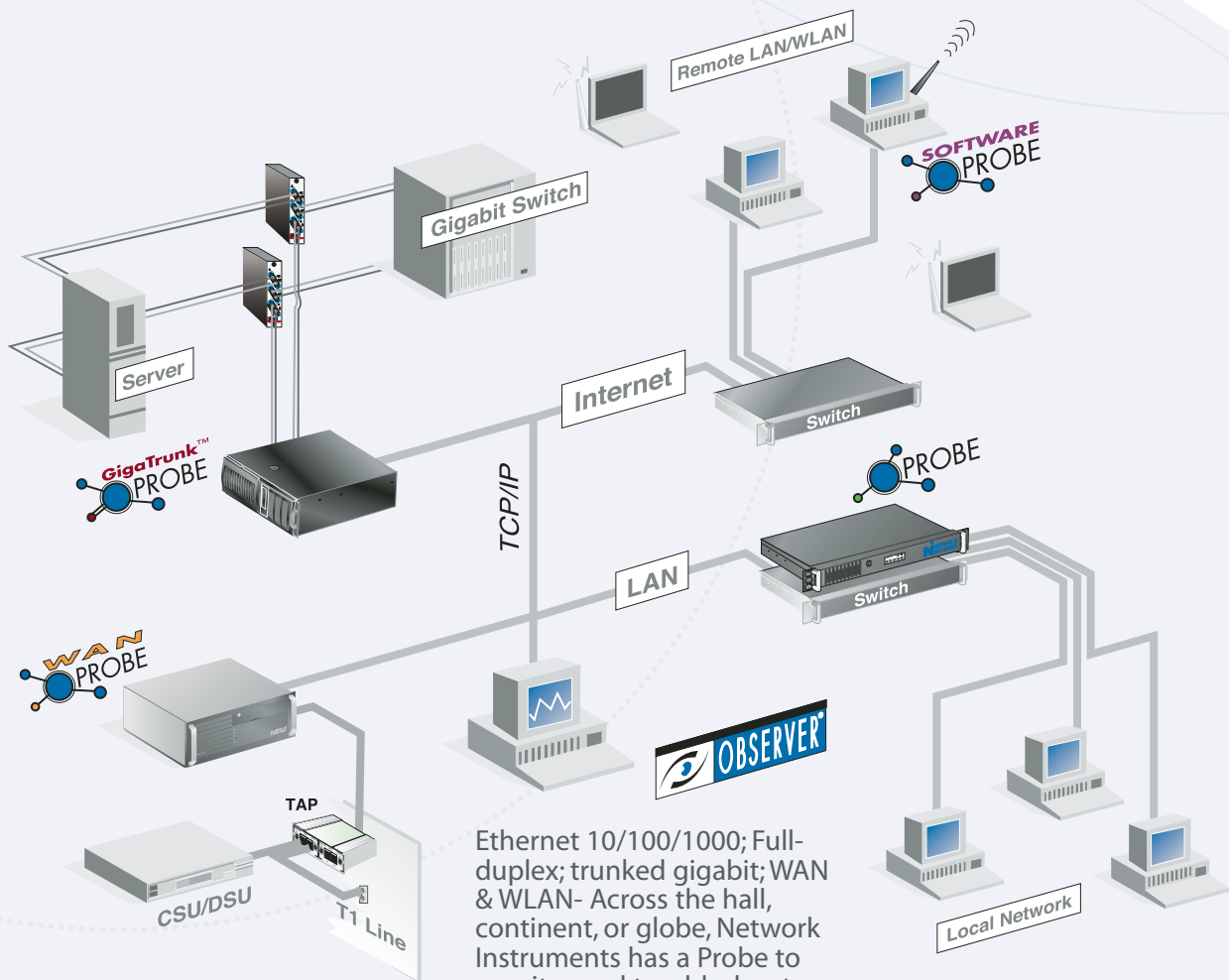
## A Complete Selection of LAN, WAN, 802.11a/b/g, and Gigabit Probes to Meet the Needs of Any Organization

Network Instruments' Probes are designed to meet the needs of any organization. Choose software-based Probes to monitor remote LANs and wireless networks or a turn-key, hardware solution for WAN links or full-duplex, gigabit networks. As with all Network Instruments products, our remote probes are designed with our own unique Distributed Network Analysis (NI-DNA™) architecture to provide the capabilities needed to manage complex, growing environments.

### With Remote Monitoring Probes from Network Instruments you can...

- Gain insight and visibility into every part of your network
- Speed troubleshooting by responding immediately to remote issues
- Manage remote networks as if they were local (24x7x365)
- Eliminate the time and expense of travel
- Reduce training times by using one solution to monitor multiple technologies and topologies
- Collaborate resources by allowing multiple users to simultaneously analyze issues

**Network Instruments solutions integrate seamlessly to manage performance across your entire organization. Wired and wireless. Local and remote. Data and applications. We cover it all with proven solutions that fit any network.**



Ethernet 10/100/1000; Full-duplex; trunked gigabit; WAN & WLAN- Across the hall, continent, or globe, Network Instruments has a Probe to monitor and troubleshoot *your* network within *your* budget.

# LAN and Wireless Remote Monitoring Solutions

For your Local Area (10/100/1000) or Wireless (802.11a/b/g) network, Network Instruments offers a complete array of software and hardware solutions.

## LAN and Wireless Software Options

For the greatest level of flexibility, turn any Windows 2000/XP/2003 system into a remote collection device. Simply attach the probe to a remote LAN, WLAN segment or switch to collect data and report back to any Observer or RMON/HCRMON management console. Software probes are also appropriate for low utilization gigabit networks with analysis speeds up to 1000Mb via a SPAN port on a switch.

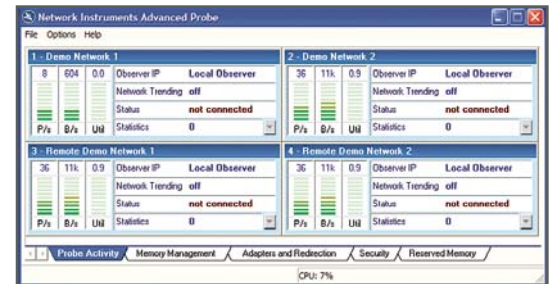
### Advanced Single Probes

- Continuously collect and store remote network information for later retrieval
- Review statistics in real-time from remote sites, networks or switches
- Defend network data with password protection and data encryption

### Advanced Multi-Probes

Offers all the features of the Advanced Single Probe plus additional advantages for enterprise-level remote monitoring.

- Monitor data from multiple network adapter cards simultaneously (up to 64)
- Collaborate across locations to solve complex network problems by viewing the same data concurrently from multiple consoles
- Capture up to 4GBs worth of data with the industry's largest memory buffer



Advanced Multi-Probe

### Advanced Expert Probes

Offers all the features of the Advanced Multi-Probe plus real-time Expert Analysis for distributed networks.

- Setup packet captures and decodes at the individual probe level, transmitting only screen updates to the console
- Perform Expert Analysis at remote locations in real-time or post-capture for faster, more efficient troubleshooting
- Conserve bandwidth by only transferring Expert Analysis results, not raw data packets

### RMON Support

Choose to configure any software probe to operate as an RMON collection facility. Some benefits include:

- Full adherence to RMON1, RMON2 and HCRMON standards
- Compatible with any RMON management console or collection facility (Observer Suite, OpenView, Concord, NetScout, Micromuse, BMC Dashboard Patrol, etc.)

## LAN and Wireless Hardware Options

Network Instruments also delivers turnkey hardware systems for ease-of-installation and guarantee of performance. Choose from 1U or 4U form factors or the more portable Wireless Probe. 1U systems consume less rack space while 4U appliances offer higher port densities and multiple-topology support.

### Advanced Probe Appliance

*Ready-to-Go, Easy-to-Install Systems*

The Advanced Probe Appliance delivers the power and functionality of the Network Instruments Advanced Probe into a space saving, easy-to-install rack mount system. Install these light, compact systems anywhere on your network to obtain full visibility from any Observer console. The 4U Advanced Probe Appliance (installed as an RMON probe or licensed as a Network Instruments Advanced Multi-Probe or Expert Probe) offers greater port density with the ability to monitor 10/100 Ethernet networks. The 1U Advanced Probe Appliance (installed as an RMON probe or licensed as a Network Instruments Advanced Single, Multi- or Expert Probe) can monitor 1000Mb gigabit links (10/100/1000).



1U Advanced Probe Appliance

### Wireless Probe Appliance

*Supports 802.11a/b/g with Full Protection of Data*

For applications that require portability, choose a Network Instruments Wireless Probe Appliance to install anywhere on your network. Use the Wireless Probe Appliance to monitor for unauthorized channels or to protect against rogue Access Points or rogue clients. Full password protection of data ensures only authorized IT administrators have complete access to network information.

### 10/100 Full Duplex Probe Appliance

*Complete Visibility into Full Duplex Links*

For real-time monitoring and analysis of 10/100 full duplex links, the Network Instruments 10/100 Full Duplex Probe Appliance is an ideal choice. The 1U rack mount system collects data via a TAP to passively monitor and maintain 10/100 full duplex links at wire-speed. Obtain detailed views with statistics, captures and a real-time Expert system. Ensure no dropped packets and no lost information – even on saturated links.

# Gigabit Remote Monitoring Solutions

## Gigabit Probes Collect Data and Report Back to the Console in Real-Time

- Obtain real-time, wire-speed, full-duplex gigabit capture and statistics
- Install and remove Gigabit Probes without disruption of the gigabit network
- Utilize the largest memory buffer (4GB) in the industry for capturing large amounts of data without packet loss
- Review statistics and perform packet captures and decodes that adhere to RMON1/RMON2 and HCRMON standards

## Ensure Accurate Captures on Fully Saturated Networks

- Gigabit Probes utilize 64-bit, 66 MHz gigabit Ethernet cards specially engineered by Network Instruments for real-time, wire-speed analysis
- Supports capture speeds of over 4Gbps – 4x more data capacity than competitive offerings

## Gigabit Hardware Options

### Gigabit Probe Appliance

#### Fully Configured and Ready-To-Go

The Gigabit Probe Appliance combines the Gigabit Probe Kit (see below) with a 4U rack mount system. This ready-to-install appliance reports to any Expert Observer or Observer Suite console. The Gigabit Probe Appliance runs Windows XP and Gigabit Probe software and collects data via a TAP for passive analysis.



4U Gigabit Probe Appliance

### Gigabit Probe Kits

#### Turn Any System Into a Powerful Probe

Probe kits can be installed into a user-provided Windows system. Once integrated into a system, the Gigabit Probe will report to any Expert Observer or Observer Suite console. The Gigabit Probe Kit also includes any necessary TAPs to ensure passive analysis of your gigabit links.

The Gigabit Probe Kit includes:

- Network Instruments' 64-bit PCI gigabit adapter (SX, LX or TX)
- Probe software
- Any necessary TAPs for passive analysis
- An Ethernet Adapter for communication to the Observer console (or for 10/100/1000 analysis)
- All required cabling



4U GigaTrunk Probe Appliance

### GigaTrunk™ Probe Appliance

#### Complete Visibility Into the Core of Your Enterprise

The Network Instruments GigaTrunk Probe (GT Probe) taps into the gigabit links that comprise the main arteries of the network. This 4U rack mount system collects data via an optical or copper Test Access Point (TAP) for complete passive analysis that does not interfere with or disrupt network traffic.

GigaTrunk Probe Benefits:

- Monitor two to four full-duplex gigabit links simultaneously
- Capture and analyze load balanced trunk traffic by conversation and by packet
- Acquire link bandwidth utilization rates independently or in aggregate
- Decode packet flow with directional and trunk indicators

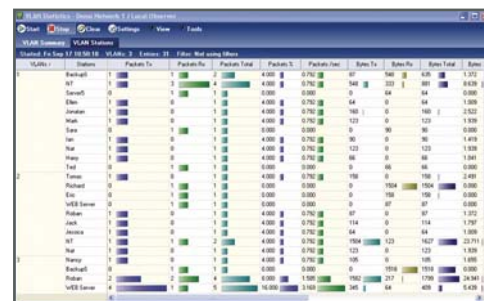
### GigaStor™ Probe Appliance

#### Advanced Expert Probe for Massive Data Collection and Storage

The Network Instruments GigaStor Probe combines a multi-terabyte, high-performance RAID array with a full-duplex gigabit capture interface in an easy-to-deploy unit. The GigaStor Probe is ideal for data mining, data retention and capturing network anomalies for purposes of network forensics and regulatory compliance.

GigaStor Probe Benefits:

- Utilize Network Instruments proprietary software for ultra-fast captures-to-disk
- Capture multiple terabytes of network data
- Save up to weeks or months of network traffic by applying filters appropriate to your site or application
- Speed troubleshooting by performing all Expert processing and packet captures in real-time or post-capture locally at the probe

A screenshot of a software interface showing a table of network statistics. The table has columns for VLANs, Status, Packets Tx, Packets Rx, Packets Total, Packets Disc, Status Tx, Status Rx, Status Total, and Error. The data is organized into a grid with alternating light and dark rows.

VLAN Analysis

At the heart of every probe from Network Instruments resides the award-winning data collection capabilities of Observer®.



- Capture and decode packets for **in-depth analysis**
- Collect long-term trending statistics for **proactive decision making**
- Run Triggers and Alarms for **instant alerts** on probe collected data
- Monitor **the entire network** from a single user interface – only one console needed to view multiple probes
- **Conserve costs** by eliminating travel time and resolving network issues from one location
- **Reduce training expenses** by using one technology to monitor all topologies and network configurations
- Probes work with the **award-winning Observer**, Expert Observer or Observer Suite console

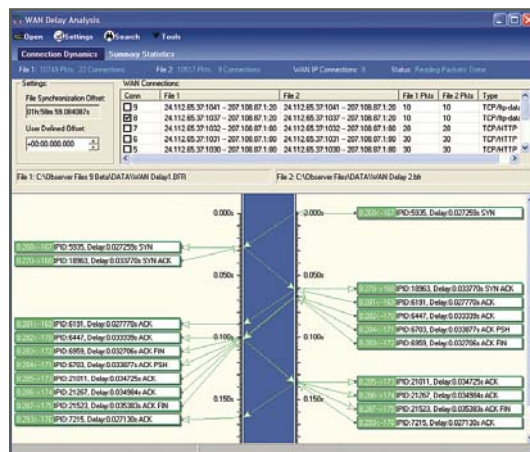
# WAN Remote Monitoring Solutions

## Pinpoint WAN Problems Without Leaving Your Desk

Install a WAN Probe for complete inline monitoring, advanced real-time Expert Analysis decode and statistics for WAN traffic as well as all payload data. Network Instruments' WAN Probes are available as a Probe Kit for easy installation into an existing system or as a stand-alone 4U rack mount Probe appliance.

## WAN Probes Provide Independent, Trusted Data for Analysis

- Provider performance metrics that aid capacity planning
- Real-time error displays for congestion diagnosis
- Pinpoint WAN flow problems before they become WAN flow disasters
- Long-term trending for reporting and baselining
- Passive capture and decode of all WAN traffic
- WAN speeds up to DS3/T3/E3 supported
- Demarcation-point (digital) or between CSU/DSU and router (serial) monitoring options
- Multiple topologies supported simultaneously



WAN Delay Analysis

## WAN Probe Appliance

*Fully Configured and Ready-To-Go*

The WAN Probe Appliance combines the WAN Probe Kit (see below) with a 4U rack mount system. This appliance is delivered pre-configured and ready-for-installation. The WAN Probe Appliance runs Windows XP and WAN Probe software and collects data via a TAP for passive analysis.

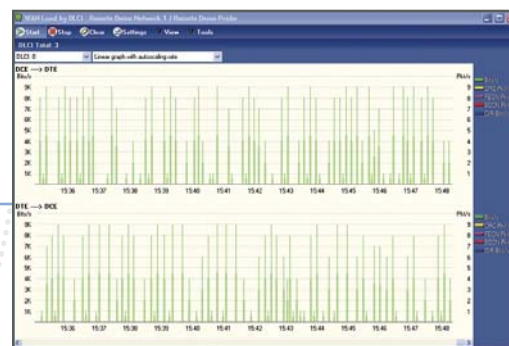
## WAN Probe Kits

*Turn Any System Into a Powerful Probe*

Probe kits can be installed into a user-provided Windows system. WAN Probe Kits have options available for one or multiple WAN links. The WAN Probe Kit also includes any necessary TAPs to ensure passive analysis.

The WAN Probe Kit includes:

- WAN Adapter (T1/E1 or DS3/HSSI/T3/E3, Serial or Digital)
- Probe software
- Any necessary TAPs for passive analysis
- An 10/100/1000 Ethernet Adapter for communication to the Observer console (or for 10/100/1000 analysis)
- All required cabling



DLCL Load

## About Network Instruments

Network Instruments is the industry leading developer of distributed, user-friendly and affordable network management, analysis and troubleshooting solutions. The award-winning Observer family of products combines a comprehensive management and analysis console with high-performance remote Probes to provide integrated monitoring and management for the entire network (LAN, 802.11 a/b/g, Gigabit, WAN). All Network Instruments products are designed utilizing our Distributed Network Analysis (NI-DNA™) architecture. With NI-DNA, the Observer solution set simplifies network troubleshooting and management, optimizes network and application performance and scales to meet the needs of any organization. Founded in 1994, Network Instruments is headquartered in Minneapolis, Minnesota with offices in London, Paris and throughout the USA with distributors in over 50 countries. More information about the company, products, innovation, technology,

NI-DNA, becoming a partner and NI University can be found at: [www.networkinstruments.com](http://www.networkinstruments.com)

## Solution Bundles

Contact a Network Instruments representative or dealer to ask about product bundles that cover all of your network management needs.

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