GPIB-LAN Adapter
AD007

★ Features and Benefits

- Control Tektronix Oscilloscopes and Other Instruments via a LAN-Based (Ethernet) TCP/IP Network PC
- Interface Up to 14 GPIB Devices to Each AD007
- Talk to Several GPIB Instruments/Systems from Several Networked PCs
- Print to Networked Printers
- Ethernet Twisted Pair (10BaseT) Adapter
- Operates on All Windows 95® and NT™ Operating Systems
- Compatible with WaveStar for Oscilloscopes Applications Software and Custom, Proprietary Programs (C, C++™, or Microsoft® Visual Basic®)
- Compact Size
- Web Page-Based Configuration and Statistics

Ⓐ Applications

- Control Your Tektronix TDS Series Oscilloscopes From Any Networked PC
- Select, Print to a Networked Printer
- Capture Waveforms Across the LAN by Using WaveStar Applications Software

New AD007

Instrument to Local Area Network (LAN) Connectivity

Control your Tektronix TDS Series oscilloscope from any networked PC. Check on its status, or capture waveforms any time you want from your office, another site, or from anywhere using WaveStar™ application software or your own software. Or command your TDS Series oscilloscope to print to a networked printer.
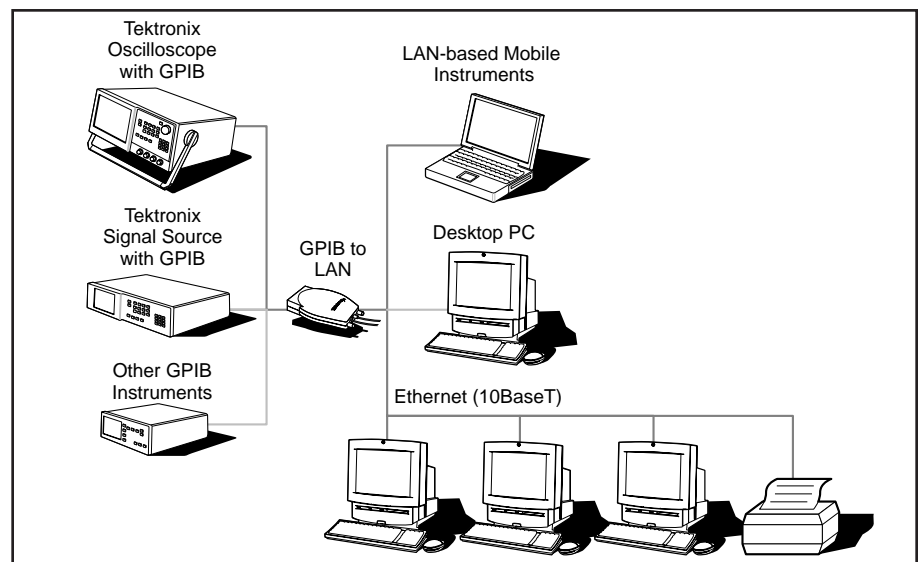
The Tektronix GPIB-LAN Adapter takes advantage of the fact that many of today's computers are connected together through an Ethernet 10BaseT LAN.

PRINT TO NETWORKED PRINTERS

Using any web browser, select the networked printer to which your TDS Series oscilloscope will print and route your hardcopy output to your high quality monochrome or color networked printer.

WINDOWS 95 OR NT COMPATIBILITY

You don't need to understand or program Ethernet protocols. Both communications and Virtual Instrument Software Architecture (VISA) software for Windows 95 or NT is included free with the GPIB-LAN Adapter. Now, you can also perform waveform capture from your TDS Series oscilloscopes across the LAN by using Tektronix WaveStar for

Several GPIB-networked instruments can be connected using the AD007 Adapter to LAN (Ethernet)-based computers and printers.

Tektronix

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Oscilloscopes application software. Or write a program using C, C++, or Microsoft Visual Basic to capture data or control your instrument. As long as the program is written using the standard VISA interface, the GPIB-LAN Adapter's software will turn your PC into a GPIB Talker, Listener, Controller.

NETWORK DETAILS

The AD007 implements a full range of adapter functions and Ethernet-based TCP/IP protocols. It operates with all of the popular network protocols such as BOOTP, DHCP, DNS, LPD, HTTP, and FTP.

CONFIGURATION AND STATISTICS

Use a web browser to configure features; examine GPIB commands, Ethernet traffic statistics, and GPIB traffic statistics; and initiate diagnostic GPIB commands.

EASE OF INSTALLATION

Simply connect your AD007 to your LAN with the cable provided, connect the GPIB interface to your instruments, and power up the unit. It automatically requests an IP address from the network's Boot Server, or this can be manually entered using the adapter's internal web page. Upon power-up, the unit also performs hardware diagnostics/self-test. Status indicators on the unit give evidence of successful completion of this testing, connection to the LAN, and both LAN and GPIB traffic.

Any number of AD007 Adapters may be used to connect any combination of GPIB devices to the network. (NOTE: Limit of 14 devices per GPIB cluster.)

SYSTEM REQUIREMENTS

Computer Type – IBM PC-compatible with Windows 95 or NT Operating System. Consult Microsoft documentation for recommended configuration.

Hard Disk – 5 Mbytes or greater.

RAM – Consult Microsoft documentation for recommended minimum configuration.

CD-ROM – Required.
NOTE: For printing, only a web browser is required.

NETWORK COMPATIBILITY

Ethernet Port – 10BaseT, RJ-45 connector.

Protocols – BOOTP, DHCP, LPD, DNS, HTTP, FTP.

Networked Printer –
Compatibility: Must be compatible with the GPIB instrument's hardcopy output format.
Print Protocol: Must support LPD Network Print protocol.

IEEE 488 (GPIB) COMPATIBILITY

Connection – No cable required for most applications.

Compatibility – Fully IEEE488.2 compatible.

NOTE: Not suitable for connection to the public telecommunications (telephone) network.

OTHER

Transmission Rate – Up to 10 Mbps on Ethernet; dependent on slowest GPIB device on the bus.

Front-Panel Indicators – Power, LAN-Link, LAN, GPIB.

ENVIRONMENTAL

Temperature –
Operating: 0 to +45° C.
Non-operating: -20 to +70° C.

Humidity – 30 to 45° C, 90 to 95%, relative humidity.

Altitude –
Operating: Up to 4,600 m (15,000 ft.).
Non-operating: Up to 15,000 m (50,000 ft.).

Vibration – 3 axis, 60 minutes total, 20 minutes/axis (10 minutes operating, 10 minutes non-operating).

Shock – Half sine, 500 g, 3 axis, 3 drops each axis.

EMC COMPLIANCE

Meets the intent of EMC Directive 89/336/EEC.
Complies with FCC Part 15, Class A limits.

SAFETY COMPLIANCE (POWER SUPPLY)

EN60950 (CE Mark).
UL1950.
CAN/CSA 22.2 No. 950.
DENTORI (T-MARK).

POWER

Source Power –
Voltage Ranges: 100 to 240 VAC ±10%.
Line Frequency: 50 to 60 Hz.

Power Consumption – Regulated 5 VDC at 300 mA, typical.

PHYSICAL CHARACTERISTICS

Dimensions	mm	in.
Height	35.6	1.4
Width	76.2	3
Depth	120.2	4.7
Weight	**kg**	**lb.**
Net	0.15	0.34

WARRANTY

One year parts and labor.

AD007
GPIB-LAN Adapter
Includes: Adapter, Regulated Power Supply, CD-ROM software, RJ-45 Cable, Manual.

AD007 POWER PLUG OPTIONS
Option A0 – U.S. 115 V, 60 Hz.
Option A1 – Universal Euro 220 V, 50 Hz.
Option A2 – UK 240 V, 50 Hz.

Option A3 – Australian 240 V, 50 Hz.
Option A5 – Switzerland 220 V, 50 Hz.
Option A6 – Japanese 100 V, 50/60 Hz.

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