Keysight Technologies
N4865A GPIB-to-LAN Adapter

Data Sheet

N4865A - GPIB TO LAN ADAPTER

PWR LAN ACT RDY TALK LSTN SRQ ERR

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Key Features

- GPIB to LAN interface module for use with the Keysight Technologies, Inc. 7000 and 9000 Series oscilloscopes
- Custom software or driver not required on either the controller or instrument
- Fast data transfer rates
- Power from USB host port of scope or PC
- Comes with a USB power cable, user's guide in electronic form, declaration of conformity in electronic form and crossover Ethernet cable

Keysight's N4865A is a GPIB to LAN adapter that provides a GPIB interface for VXI-11.3 compatible LAN based oscilloscopes such as Keysight's 7000 and 9000 Series. Using the N4865A, GPIB applications running on a computer can transparently interface to a LAN based instrument as if it were a GPIB instrument.

The N4865A will not require any custom software or driver on either the controller or the instrument beyond whatever GPIB software is already in use. The product is compatible with the LXI AutoIP standard or can use a static IP address. When shipped, the product is configured to operate with a static IP address (169.254.48.65) and to work with a VXI 11.3 compatible LAN instrument with a single IP address. The product includes a HTML based interface which can be accessed via a standard (PC based) TCP/IP connection. This interface allows access to all relevant configuration settings within the product, specifically including the GPIB address, static IP address, and other communication settings.

The N4865A has two ways to connect to an instrument after the power-on self test.
- The user can specify an IP address for the instrument and the N4865A will attempt to connect to it.
- If the N4865A's AutoFind function is enabled, the N4865A will do an UDF broadcast and attempt to connect it to the first VXI-11.3 compatible instrument that replies to the broadcast.
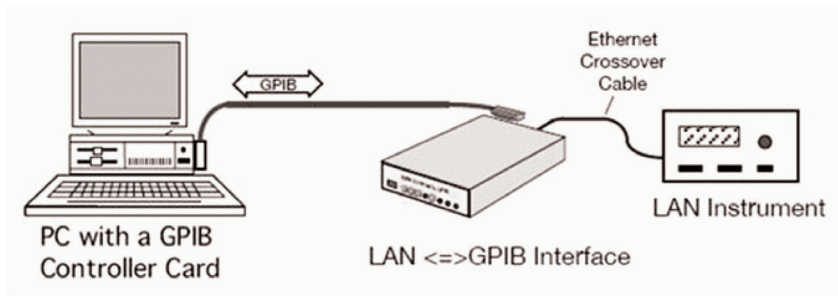
Figure 1. N4865A direct instrument connection

Characteristics

– System requirements and compatibility
  – Compatible with Keysight oscilloscopes and other Keysight LXI instruments with an Ethernet
  – Any computer with a GPIB card and the Keysight I/O library or NI GPIB library
  – IEEE488 GPIB interface meets the IEEE standard 488.1-1987 standard and has the following capabilities SH1, AH1, T6, L4, SR1, PP0, DC0, RL0, DT0, C1-C4 and C9

– Construction: All metal case (providing proper EMI/RFI protection and rack mounting capability) – Rack mount kit available from ICS.

– Power: via instrument's host USB port

– Connectors: IEEE488 GPIB connector with metal studs, Ethernet interface RJ-45 connector

– Controls: Power switch on front panel, LAN reset switch on rear panel

– Included accessories:
  – X1 GPIB to LAN interface module
  – X1 USB power cable
  – X1 Ethernet crossover cable
  – X1 Keysight user's manual
  – X1 Declaration of Conformity in electronic or paper form

– Size: 7.65" L x 5.57" W x 1.52" H (18.92 cm L x 14.15 cm W x 3.86 cm W)

– Weight: 3 lbs (1.4 kg) including adapter

– Temperature: operating - -10 ℃ to +55 ℃, Storage - -40 ℃ to +70 ℃

– Humidity: 0-90% RH without condensation

– Shock/Vibration: Tested to Keysight's normal GP instrument standard

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus

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