

Agilent 34972A LXI Data Acquisition Unit

Easily connect, configure and acquire data on the bench, on the network or in the field



Takes our best selling 34970A to the next level with:

- ✓ LAN & USB IO to PC
- ✓ USB flash drive support
- ✓ Graphical Web Interface



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Agilent 34972A LXI Data Acq

Agilent 34972A LXI Data Acquisition Unit

Now with LAN and USB to easily connect, configure and acquire data on the bench, on the network or in the field

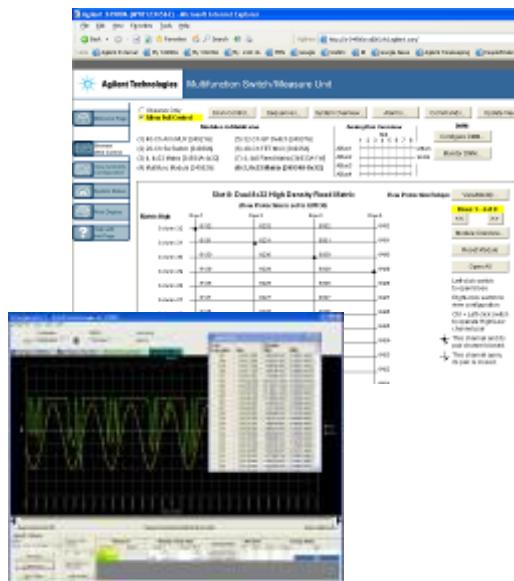
- 3-slot LXI mainframe with 6 ½ digit DMM
- Measures temperature (RTDs, thermocouples, thermistors), AC/DC V and I, 2/4 wire resistance, frequency/period
- 1Gbit LAN and USB 2.0 standard on all units
- USB flash drive support for data storage or transfer
- Web Interface for easy set up and control
- Accepts all 34970A switch and control plug-in modules
- Free BenchLink data logger software to create tests without programming

**34970A will continue to be available for
GPIB and RS-232 applications**

Now with LAN & USB

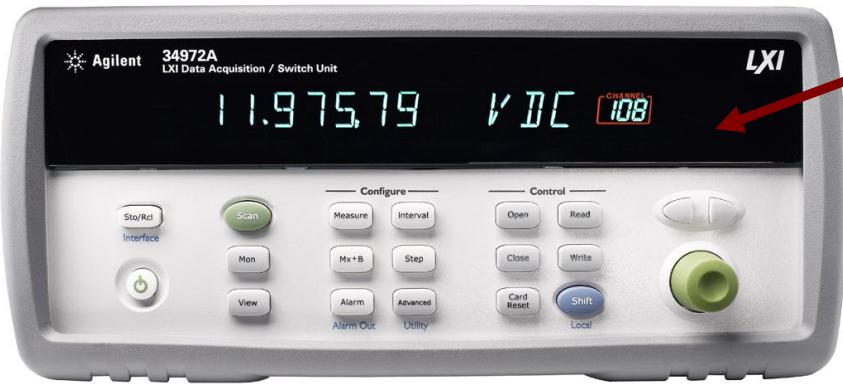


Now has Web Interface



**Free BenchLink data
logger software**

Agilent 34972A – A Closer Look



- Easy to use front panel control
- Optional internally mounted 6 1/2 digit DMM



Choose from 8 plug-in modules with on-board screw terminals

NEW
Gigabit LAN and USB 2.0 for instant connection to a PC

NEW

USB flash drive for standalone applications:

- Copy BenchLink data logger files to instrument
- Log measurements directly to USB stick
- Copy internal memory data to USB stick

34972A on the Bench, on the Network or in the Field

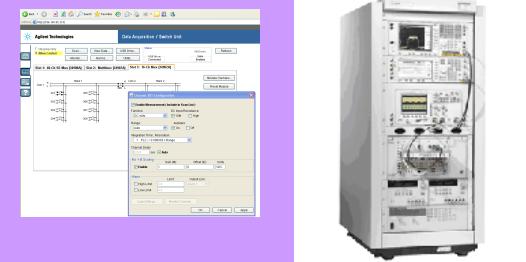
In Design Validation

- Instant LAN or USB connection to the PC – no need to purchase IO cards
- Easy set up and control with BenchLink or Graphical Web Interface



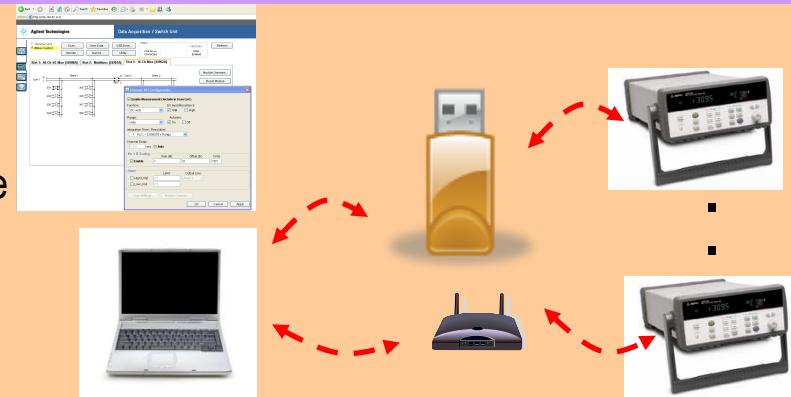
In Functional Test

- Connect to the company network
- Troubleshoot test development through Graphical Web Interface
- Remote monitoring through Graphical Web Interface



When Logging Data

- Remote network connection through LAN (wireless or wired)
- Remote monitoring & control with BenchLink or Web Interface
- No PC required – use USB flash to upload configuration or transfer data back to the PC for analysis



34972A Graphical Web Interface

Remote access and control of the 34972A via a standard Web Browser from anywhere on the Network

Set up, troubleshoot and debug

Check configurations

Open/close/monitor

Define & execute scan lists

Send, receive and view SCPI commands

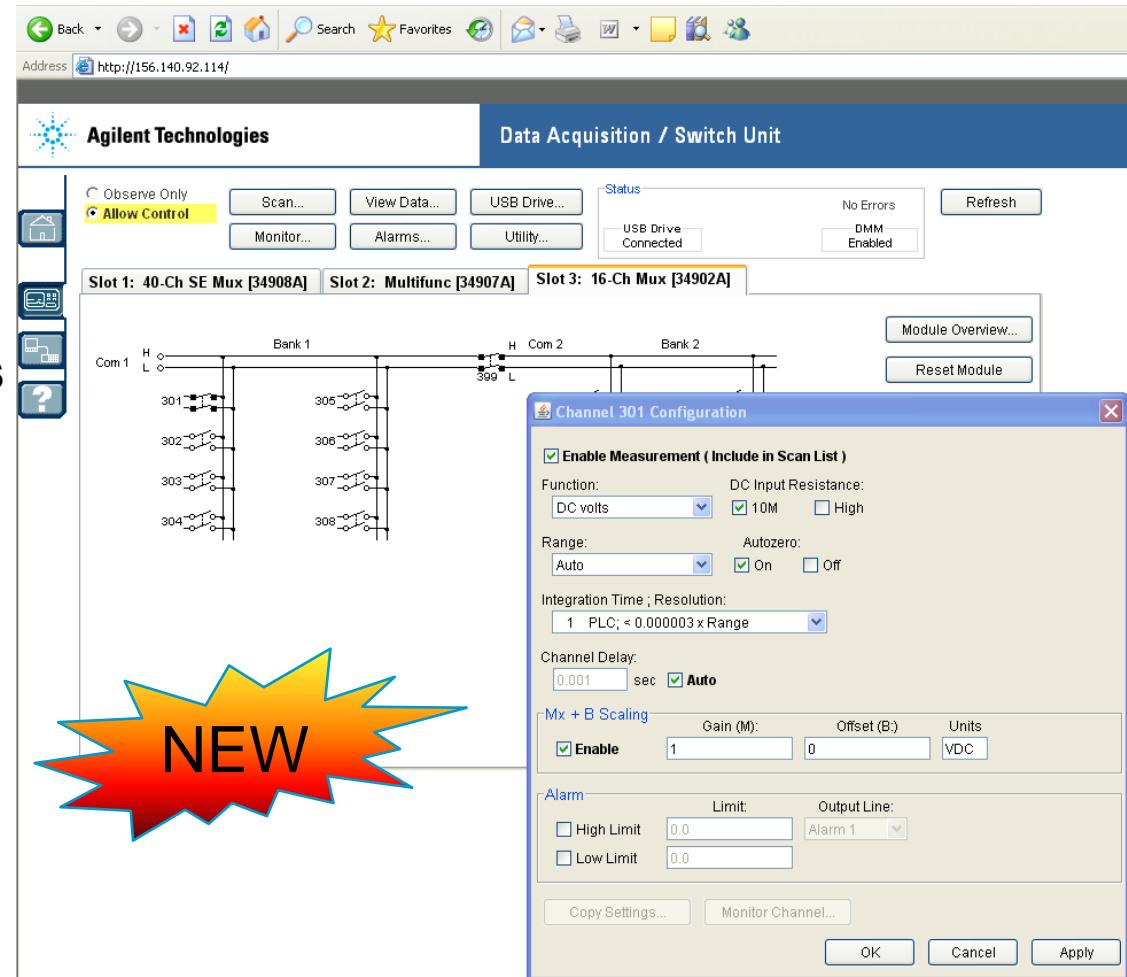
OS independent

Password protection/ LAN lockout

Status and maintenance

Error queue, I/O traffic

Status report - cal status, relay counter



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Agilent 34972A LXI Data Acq

BenchLink Data Logger Software for 34970A & 34972A

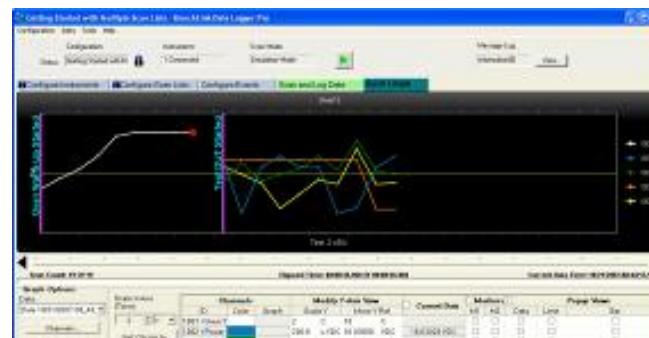
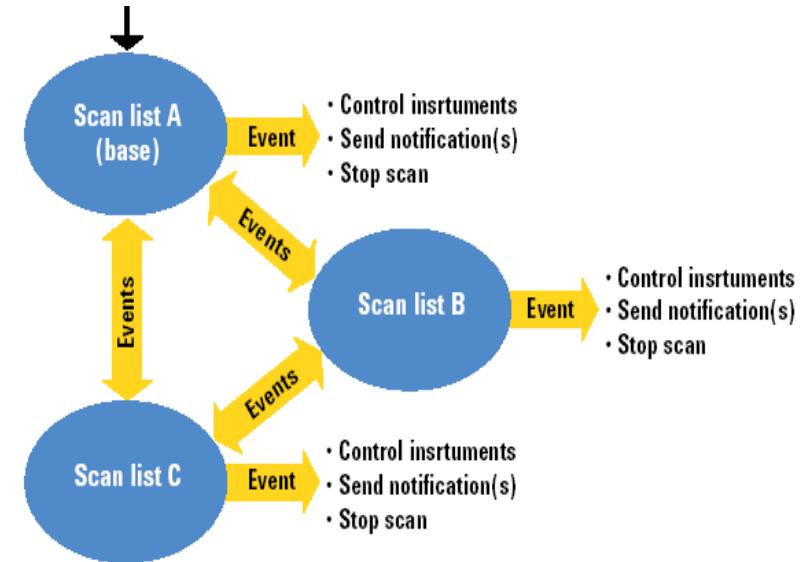
FREE

BenchLink Data Logger for the 34970A and 34972A
provides high-speed data logging software with quick
and easy access to measurements

BenchLink Data Logger Pro: \$795

*Advanced data logging and decision
making without programming*

- Quickly set up and execute tests with real-time limit checking, decision making and conditional branching
- Create multiple scan lists
- Execute events based on predefined limits
- Use advanced math functions
- Present data on a single or multiple graphs
- Export data to other applications for presentation and analysis



Product video and software download at:
www.agilent.com/find/34832A



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Agilent 34972A LXI Data Acq

34970A and 34972A Standard Features

Mainframe

- 3 slots-up to 120 single -ended channels or 96 matrix cross points in one frame
- Scans up to 250 ch/sec
- 50 Kreadings of non-volatile memory, auto timestamp
- Per Channel Function, Scaling, & Alarming
- Power-fail Recovery
- Relay count for system maintenance
- Real-time clock battery backed with 1ms resolution
- Non-volatile storage for 5 complete configurations
- Software drivers for VEE, LabVIEW, C, C#, Basic, .net

Internal DMM

- 6.5 digits (22 bits) of resolution with 0.004% 1 year DCV accuracy
- Isolated to 300 V
- Measures
 - 2- and 4- wire Ohms
 - DC and AC volts
 - Temperature: 8 thermocouples types, RTDs, thermistors
 - Frequency, Period to 300 kHz
 - DCI, ACI (channels 21 and 22 on 34901A module only)

34972A Mainframe and Modules Ordering Information

34972A-DMM Data Acquisition Unit w/ DMM, \$1,845

Includes Operating and Service Manuals on CD-ROM, Test Report, power cord, and Benchlink Data Logger 3

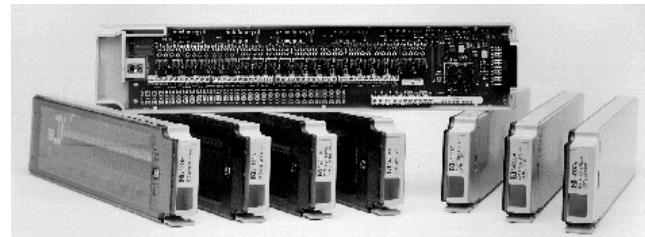
Options:

- 34972A-001 Mainframe w/out DMM
- 34972A-ABA English printed manual
- 34972A-A6J ANSI Z540 compliant calibration
- 34972A-1CM Rack mount kit
- 34830A BenchLink Data Logger Pro



Modules

- 34901A 20 ch general purpose mux, \$481
- 34902A 16 ch high-speed mux, \$585
- 34903A 20 ch GP switch (formC), \$414
- 34904A 4 x 8 matrix card, \$519
- 34905A 50 ohm RF mux, \$758
- 34906A 75 ohm RF mux, \$758
- 34907A multifunction module, \$388
- 34908A 40 ch single-ended mux, \$495



34970A and 34972A – How are they different?

34972A is easily integrated into existing 34970A applications

- Same measurements
- Same modules & wiring
- Same SCPI commands – just make a simple address change (example):

Change: `Set inst1.1O = ioMgr.Open("GPIB0::9::INSTR")`

To: `Set inst1.1O = ioMgr.Open("TCPIP0::156.140.77.230::inst0::INSTR")`

	34970A	34972A
Support 8 plug-in modules	✓	✓
BenchLink Data Logger/PRO software	✓	✓
IVI-C, IVI-COM, LabView drivers	✓	✓
Gaphical Web interface		✓
Gigabit LAN		✓
USB 2.0		✓
USB flash drive support		✓
GPIB	✓	
RS-232	✓	



Limited Time Price Promotion

For a limited time purchase the 34972A at the 34970A price

Now get a LAN/USB data acquisition unit to connect directly to your PC at a lower price - No need to purchase expensive IO cards or converters

Promo code: 5.784

Effective until July 31, 2010



New Agilent switch selection tools:

See www.agilent.com/find/dataacquisition

- View all Agilent Data Acquisition and Switch Platforms
- Side-by-side comparisons of different mainframe and module functionality and price
- Use the switch configurator to configure a complete solution with mainframe, cards and options

Data Acquisition and Switching Modules Comparison

Overview Select & Compare Library ▶ Technical Support ▶

1. Select Features

[Start Over](#)

Module Type
 match all match any

- Breadboard
- D/A Converter
- Digital I/O
- General Purpose
- Matrix
- RF/Microwave

Channels/sec.
 match all match any

- 0 - 120 ch/s
- 121 - 250 ch/s
- 251 - 333 ch/s
- 334 - 500 ch/s
- 501 - 600 ch/s
- 601 - 1000 ch/s
- 1000 - 10000 ch/s

Acquire Rate
 match all match any

- 10 kSa/s
- 250 kSa/s
- 500 kSa/s
- 1 MCS/s

2. Review Matches - Filtered

13 of 97 product matches

Price for: **United States** Prices are subject to change without notice.

[Print](#)

Compare

Product	Base Price Availability	Platform	Module Type	Maximum Inputs/Outputs (V, I)	Speed or Frequency	Channels/Crosspoints
	US\$ 480 3 weeks How to Buy	34970A	■ Matrix	300V, 1A	120 ch/s	32
	US\$ 910 4 weeks How to Buy	34980A	■ Matrix	300V, 2A	100 ch/s	64
	US\$ 1,508 4 weeks How to Buy	34980A	■ Matrix	300V, 2A	100 ch/s	128
	US\$ 1,013 4 weeks How to Buy	34980A	■ Matrix	150V, 1.5A	500 ch/s	128

http://www.home.agilent.com/agilent/morecountries.jsp?lc=eng&cc=US&CPSK=IB-HOME&prev_url=http://www.home.agilent.com/agilent/p

[Local intranet](#)

Learn More

Sign up to receive new application briefs or product promos

www.agilent.com/find/34972ASpotLight

Over 15 Application notes/briefs with subjects like

- *Increase Data Acquisition flexibility with wireless LAN*
- *Selecting the Right Data Acquisition System (AN 1412)*
- *Making High Accuracy Temperature Measurements (AN 1425)*
- *Practical Temperature Measurements*
- *Practical hints for making fast scans of multiple-sensor systems*
- *Maximizing the Life Span of Your Relays (AN 1399)*
- *Improve your data logging productivity in advanced limit testing*
- *Characterizing I-V Curve for Solar Cells and Modules (AN 4050)*



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Agilent 34972A LXI Data Acq

Agilent Data Acquisition and Switching Instruments



34970/72A data acquisition & switch units

- Data logger, DAQ system or low-cost switching unit
- **Three-slot mainframe**
- **Maximum 60 channels**
- **8 plug-in modules**
- Built-in 6½-digit DMM (optional)
- BenchLink data logger software

34972A Adds:

- **LAN and USB interfaces**
- **Graphical Web-browser Interface**
- **USB Flash Drive Support**



34980A multifunction switch/measure unit

- Optimized for design verification & manufacturing
- **Eight-slot mainframe**
- **Maximum 560 channels**
- **21 plug-in modules**
- **RF/uW Switching**
- Built-in 6½-digit DMM (optional)
- **GPIB, LAN & USB I/O**
- BenchLink data logger software
- **Graphical Web-browser interface**