

# Agilent 34970A & 34972A Data Acquisition and Switching

The 34970A is an industry leader in small to medium applications. The 34972A offers LAN and USB so customers can easily connect, configure and acquire data on the bench, on the network or in the field. The 34980A extends the capability for medium to large scale applications:

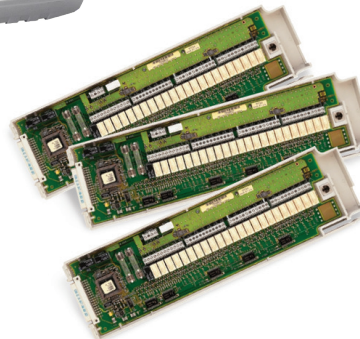
## Key features

- 34970A/34972A LXI DAC/switch unit (3-slot, up to 60 2-wire channels)
- Internal 6 ½ DMM for precision measurements
- Easy-to-read display to monitor the setup and measured values
- Easy-to-use front panel for manual setup control
- 34970A computer interfaces: GPIB, RS-232
- 34972A computer interfaces: LAN, USB
- 34972A: Adds graphical web interfaces and USB memory port for remote applications
- Eight different plug-in modules for 34970 & 34972
- SCPI programming language, drivers and data logger software included



## High quality switching with built-in 6 ½ Digit Digital Multimeter (DMM)

- Wide variety of switching: General purpose, multiplexer, matrix, RF,  $\mu$ W, and  $\mu$ W relay driver
- Internal DMM measures DC/AC voltage and current, resistance, temperature, frequency/totalize
- Digital to analog converters for analog output
- Digital input and output



## Product Fact Sheet

### Agilent 34970A & 34972A Data Acquisition and Switching

#### Uncompromising performance

- High precision measurements
- High quality switching
- High productivity software

#### 34970A/34972A plug-in modules

| Part   | Description              |
|--------|--------------------------|
| 34901A | 20 chan GP mux           |
| 34902A | 16 chan hi speed mux     |
| 34908A | 40 chan Single-Ended mux |
| 34903A | 20 chan actuator/switch  |
| 34904A | 4x8 matrix               |
| 34905A | 50 $\Omega$ RF mux       |
| 34906A | 75 $\Omega$ RF mux       |
| 34907A | Multifunction            |

#### 34970A/34972A data acquisition accessories

| Part   | Description                                |
|--------|--------------------------------------------|
| 34830A | BenchLink Data Logger Pro Software license |
| 34307A | 10-pack J-type thermocouples               |
| 34308A | 5-pack 10-k $\Omega$ thermistors           |

For more information on Agilent switches please visit:

- [www.agilent.com/find/34970A](http://www.agilent.com/find/34970A)
- [www.agilent.com/find/34972A](http://www.agilent.com/find/34972A)
- [www.agilent.com/find/34980A](http://www.agilent.com/find/34980A)

To find a distributor go to: [www.agilent.com/find/distributors](http://www.agilent.com/find/distributors)



#### Three-Year Warranty

[www.agilent.com/find/ThreeYearWarranty](http://www.agilent.com/find/ThreeYearWarranty)

Agilent's combination of product reliability and three-year warranty coverage is another way we help you achieve your business goals: increased confidence in uptime, reduced cost of ownership and greater convenience.

#### Everything you need to know about the mainframes

| Features                | 34970A                                                  | 34972A   |
|-------------------------|---------------------------------------------------------|----------|
| Analog measurements     | Voltage, current, resistance, frequency and temperature |          |
| Digital IO              | Up to 48 bits                                           |          |
| Analog output           | -10 V to +10 V, 20 mA                                   |          |
| Multiplexing            | Max 120 1-wire, 60 2-wire                               |          |
| Matrix                  | Max 96 crosspoints                                      |          |
| General purpose         | Max 60 switches                                         |          |
| RF multiplexing         | Max 24 chan, 2 GHz                                      |          |
| Graphical web interface | N/A                                                     | Yes      |
| USB memory port         | N/A                                                     | Yes      |
| Interface               | GPIB, RS-232                                            | LAN, USB |

#### Recommended service options

Additional two years of Return-to-Agilent warranty  
Additional two years of Return-to-Agilent calibrations  
For more information go to [www.agilent.com/find/removealldoubt](http://www.agilent.com/find/removealldoubt)

Technical data, availability, and pricing subject to change without notice.

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