

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

KEITHLEY

Keithley 3722 Dual 1×48 High Density Multiplexer Module

The Keithley 3722 is a Dual 1×48 High-Density Multiplexer Module designed for use with Keithley data acquisition systems. It offers high-density switching capabilities, allowing for versatile signal routing and automated testing applications. This module features two independent 1×48 multiplexers, providing a total of 96 channels.



MODEL

Keithley 3722

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

3722

LISTING

<https://aumictechlabs.com/products/3722-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley 3722 is a dual 1×48 high-density multiplexer module designed for integration into Keithley 3700 and 3700A Series mainframes. It has two independent 1×48 two-pole multiplexer banks that can be interconnected via relays to form a single 1×96 two-pole multiplexer, or isolated for independent operation and card-to-card expansion. The module supports both 2-wire and 4-wire measurement configurations, enabling flexible signal routing for automated testing and complex switching applications across up to 96 two-pole channels or 48 four-pole channels. Technical Specifications Switching Architecture Dual 1×48 two-pole multiplexer banks with relay interconnection Single 1×96 two-pole or 48 four-pole channel configurations Latching electromechanical relays with matrix drive scheme Relay closure memory stored on-board 4 ms actuation time Contact life: >10⁵ operations at maximum signal level; >10⁸ no-load operations

Electrical Performance Maximum switched signal: 300 V DC or RMS, 1 A Maximum carry signal: 2 A Power dissipation: 60 W maximum; 125 VA maximum Contact potential: $<\pm 1\ \mu\text{V}$ (1×48); $<\pm 2\ \mu\text{V}$ (1×96) Offset current: $<100\ \text{pA}$ Common mode voltage: 300 V DC or RMS to chassis Volt-Hertz limit: 8×10^7 Bandwidth: 25 MHz (1×48); 15 MHz (1×96) Channel resistance (EOL): $<1.5\ \Omega$ (1×48); 110 channels per second Physical Characteristics Signal connectors: Two 104-pin D-sub female Weight: 0.91 kg (2 lbs) Operating temperature: 0°C to 50°C Storage temperature: -25°C to 65°C Humidity: 0% to 70% RH (70% RH at 35°C maximum) Key Features Flexible configuration: operate as independent 1×48 banks or unified 1×96 multiplexer Bank isolation via relay control for mainframe backplane disconnection Low contact potential and minimal offset current for precision measurement High relay contact durability suitable for extended duty cycles Compact form factor within standard mainframe slot architecture Typical Applications Automated test systems requiring high-channel-count switching Multi-channel DC, AC voltage, and resistance measurement Signal routing in data acquisition and monitoring systems Parallel testing across 96 independent channels Compatibility & Integration Designed for Keithley 3700 and 3700A Series mainframes. Banks interconnect via on-board relays to support card-to-card expansion and optional DMM integration through analog backplane connection relays.

Features & description

From manufacturer datasheet

Technical Specifications

Dual 1×48 two-pole multiplexer banks with relay interconnection Single 1×96 two-pole or 48 four-pole channel configurations Latching electromechanical relays with matrix drive scheme Relay closure memory stored on-board 4 ms actuation time Contact life: $>10^5$ operations at maximum signal level; $>10^8$ no-load operations Electrical Performance Maximum switched signal: 300 V DC or RMS, 1 A Maximum carry signal: 2 A Power dissipation: 60 W maximum; 125 VA maximum Contact potential: $<\pm 1\ \mu\text{V}$ (1×48); $<\pm 2\ \mu\text{V}$ (1×96) Offset current: $<100\ \text{pA}$ Common mode voltage: 300 V DC or RMS to chassis Volt-Hertz limit: 8×10^7 Bandwidth: 25 MHz (1×48); 15 MHz (1×96) Channel resistance (EOL): $<1.5\ \Omega$ (1×48); 110 channels per second Physical Characteristics Signal connectors: Two 104-pin D-sub female Weight: 0.91 kg (2 lbs) Operating temperature: 0°C to 50°C Storage temperature: -25°C to 65°C Humidity: 0% to 70% RH (70% RH at 35°C maximum)

Key Features

Flexible configuration: operate as independent 1×48 banks or unified 1×96 multiplexer Bank isolation via relay control for mainframe backplane disconnection Low contact potential and minimal offset current for precision measurement High relay contact durability suitable for extended duty cycles Compact form factor within standard mainframe slot architecture

Keithley 3722 — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Keithley 3722. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values [Request Calibration](#) → [Request Repair Quote](#) →

Keithley 3722 price

This Keithley 3722 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Keithley 3722 calibration cost

NIST-traceable calibration for the Keithley 3722 is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Turnaround is 1 to 3 business days after receipt. See full calibration details →

Applications

Automated test systems requiring high-channel-count switching Multi-channel DC, AC voltage, and resistance measurement Signal routing in data acquisition and monitoring systems Parallel testing

across 96 independent channels Compatibility & Integration Designed for Keithley 3700 and 3700A Series mainframes. Banks interconnect via on-board relays to support card-to-card expansion and optional DMM integration through analog backplane connection relays.

Unit notes

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Technical Specifications

Switching Architecture Dual 1×48 two-pole multiplexer banks with relay interconnection Single 1×96 two-pole or 48 four-pole channel configurations Latching electromechanical relays with matrix drive scheme Relay closure memory stored on-board 4 ms actuation time Contact life: $>10^5$ operations at maximum signal level; $>10^8$ no-load operations

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Physical Characteristics Signal connectors: Two 104-pin D-sub female Weight: 0.91 kg (2 lbs) Operating temperature: 0°C to 50°C Storage temperature: -25°C to 65°C Humidity: 0% to 7

3722 Specifications

PARAMETER	VALUE
Voltage / Current Range	1 A (switched signal)

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

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Compatibility & Integration Designed for Keithley 3700 and 3700A Series mainframes. Banks interconnect via on-board relays to support card-to-card expansion and optional DMM integration through analog backplane connection relays.

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3722 Specifications

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Technical Specifications

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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
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<https://aumictechlabs.com>

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.