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Data Sheet

August 13, 2026

KEITHLEY

Keithley 7011-C Quad 1x10 Mux Switch Card

Keithley 7011-C Quad 1x10 Multiplexer Card Mass Terminated The 7011-C (7011C) is a 40-channel multiplexer card for 7001/7002 mainframes. Four independent 1x10 two-pole FormAbanks (or two 1x10 four-pole banks) connect to the analog backplane; jumpers isolate banks. TheCversion uses a 96-pin male DIN mass-terminated connector rather than the 7011-S screw terminals. Maximum 110 V DC / 1 A / 60 VA, less than 1 uV contact potential per pair, less than 100 pA offset, 2 MHz insertion-loss class. 40-channel two-pole scanning in 7001/7002

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MODEL

Keithley 7011-C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

7011-C

LISTING

<https://aumictechlabs.com/products/7011-c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley 7011-C is a Quad 1x10 Mux Switch Card engineered for signal routing in automated test and data acquisition systems. It integrates with Keithley's 7001 and 7002 switch mainframes to deliver configurable multiplexing across four independent 1x10 2-pole banks. Banks combine flexibly into dual 1x20, 1x10 and 1x30, or single 1x40 multiplexer topologies. Two 7011-C cards

cascade to form a 1×80 multiplexer, while outputs connect to 7012 row-expansion cards via the analog backplane. Removable jumpers enable bank isolation and backplane connectivity.

Technical Specifications

Switching Performance Maximum DC signal: 110 V between any two pins, 1 A switched, 30 VA (resistive load) Maximum AC signal: 125 V rms, 175 V AC peak between any two pins, 1 A switched, 60 VA (resistive load) Common mode voltage: 175 V peak (any pin to chassis) Channel resistance: $<1\ \Omega$ per conductor Contact potential: $<1\ \mu\text{V}$ per channel contact pair Offset current: $10^9\ \Omega$, $10^9\ \Omega$, $10^9\ \Omega$, $10^9\ \Omega$, $10^9\ \Omega$, $10^9\ \Omega$, $<600\ \text{pF}$ Crosstalk at 1 MHz (50 Ω load): $\leftarrow$ 40 dB (bank and channel) Insertion loss (50 Ω source/load): $<0.1\ \text{dB}$ below 1 MHz, $<3\ \text{dB}$ below 2 MHz Contact Life Cold switching: 10^8 closures At maximum signal levels: 10^5 closures

Key Features Four independent 2-pole multiplexer banks Flexible configuration from 1×10 to 1×40 topologies Cascadable for 1×80 multiplexer expansion Low contact potential and offset current for sensitive measurements 96-pin male DIN connector interface

Typical Applications Automated test equipment (ATE) Multi-channel data acquisition Signal routing in laboratory environments Low-level analog switching

Compatibility & Integration Designed for Keithley 7001 and 7002 Switch Mainframes. Backplane outputs support row expansion via 7012 cards. Jumper-selectable bank isolation.

7011C Characteristics / Specifications

PARAMETER	VALUE
Model	7011-C
Manufacturer	Keithley Instruments
Instrument Type	Quad 1×10 multiplexer card
Alias	7011C; 7011-C
Host Mainframes	7001 and 7002
Channel Count	40
Mux Configuration	four independent 1×10 two pole banks or two 1×10 four pole banks
Contact Configuration	2 pole Form A (Hi, Lo)
Connector	96-pin male DIN mass terminated
Maximum DC Signal	110 V DC between any two pins, 1 A switched, 30 VA resistive
Maximum AC Signal	125 V RMS or 175 V AC peak, 1 A switched, 60 VA resistive
Common Mode Voltage	175 V peak any pin to chassis
Contact Life Cold	1E8 closures
Contact Life Max Signal	1E5 closures
Channel Resistance	less than 1 ohm per conductor
Contact Potential Pair	less than 1 uV per Hi/Lo pair (typically less than 1 uV)
Contact Potential Single	less than 3 uV typical
Offset Current	less than 100 pA
Actuation Time	3 ms
Isolation Bank	greater than 1E9 ohm, less than 25 pF
Crosstalk 1 MHz 50 Ohm	less than -40 dB channel
Insertion Loss	less than 0.1 dB below 1 MHz, less than 3 dB below 2 MHz
Relay Drive Current	16 mA per relay
Operating Temperature	0 C to 50 C, up to 35 C less than 80 percent RH
Storage Temperature	-25 C to 65 C

PARAMETER	VALUE
Related Screw Terminal	7011-S (less than 500 nV pair potential)
Related FormCMux	7111-S
Accessories	7011-MTC-1, 7011-MTC-2, 7011-KIT-R

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	25 C to 65 C
Operating temperature	0 C to 50 C, up to 35 C less than 80 percent RH
Operating Temperature	0 C to 50 C, up to 35 C less than 80 percent RH
Related Screw Terminal	7011-S (less than 500 nV pair potential)
Related FormCMux	7111-S
Accessories	7011-MTC-1, 7011-MTC-2, 7011-KIT-R Notes Specs from Keithley Models 7011-S and 7011-C instruction manual. Confirm C (DIN) versus S (screw) before ordering cables. Jumpers determine backplane isolation. Filename slug uses hyphenated 7011-c for mapper match; sister file keithley-7011c.txt also exists.

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.

Specifications	
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Notes

Specs from Keithley Models 7011-S and 7011-C instruction manual. Confirm C (DIN) versus S (screw) before ordering cables. Jumpers determine backplane isolation. Filename slug uses hyphenated 7011-c for mapper match; sister file keithley-7011c.txt also exists.

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

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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.