

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

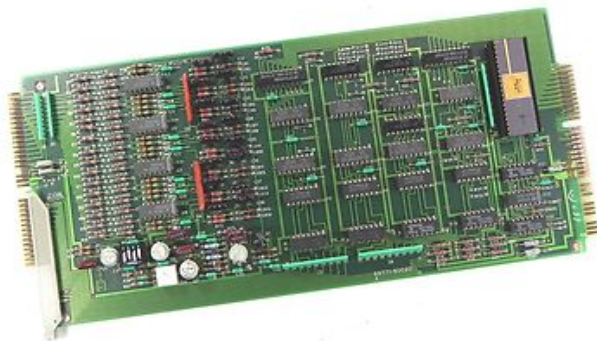
August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 69771A - Digital Input / Analog Comparator Card

HP Agilent 69771A Digital Input Analog Comparator Card The HP 69771A is a digital-input / analog-comparator plug-in for 6940B/6942A/69501A multiprogrammers. OEM 69700-series card data list TTL-level digital inputs plus analog comparator channels for go/no-go limits in automated test, programmed through the 6940B HP-IB. Digital status readback and analog limit comparison in 6940-based ATE. Instrument Type: Digital input analog comparator card

The HP 69771A is a digital-input / analog-comparator plug-in for 6940B/6942A/69501A multiprogrammers. OEM 69700-series card data list TTL-level digital inputs plus analog comparator channels for go/no-go limits in automated test, programmed through the 6940B HP-IB. Digital status readback and analog limit comparison in 6940-based ATE. Instrument Type: Digital input analog comparator card Analog Function: analog comparator / limit compare



MODEL

**Agilent / Keysight
69771A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

69771A

LISTING

<https://aumictechlabs.com/products/69771a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 69771A is a Digital Input/Analog Comparator Card engineered for integration into modular test and measurement systems. The card provides digital input capabilities for monitoring external signals and incorporates an analog comparator function for threshold-based signal detection. It delivers precise control and monitoring of analog and digital signals within

automated test equipment (ATE) environments, laboratory setups, and industrial automation platforms.

Technical Specifications

Digital Inputs Receive standard logic-level signals Exact input count and type specifications available in product manual

Analog Comparator Compares input analog signal against user-defined threshold Output state indicates signal level relative to threshold (above or below) Threshold range and accuracy specifications in technical documentation

Interfaces Integration via proprietary backplane or standard communication bus Compatible with PXI, LXI, or dedicated Keysight system interfaces

Power & Electrical Power consumption and voltage requirements dependent on host system Operates within specifications of compatible Keysight platforms Input voltage levels support TTL and CMOS compatibility

Form Factor Plug-in card design for modular instrument chassis Dimensions and mounting specifications proprietary to host chassis

Key Features

- Flexible modular architecture enabling custom system configurations
- Simultaneous digital input monitoring and analog threshold comparison
- Integration into broader Keysight instrumentation ecosystems
- Hardware-based signal conditioning for real-time detection

Typical Applications

- Automated test equipment signal monitoring and control
- Laboratory measurement systems requiring threshold detection
- Industrial automation systems with mixed-signal requirements
- Multi-instrument test platform configurations

Compatibility & Integration The 69771A installs into Agilent and Keysight modular chassis platforms. Operation requires appropriate drivers and software support - typically Keysight's IO Libraries Suite or host-specific drivers compatible with installed test executive software. Verification of chassis compatibility prior to procurement is essential.

69771A Characteristics / Specifications

PARAMETER	VALUE
Model	69771A
Instrument Type	Digital input analog comparator card
Host Mainframes	HP 6940B 6942A 69501A
Digital Inputs	TTL level digital input
Analog Function	analog comparator / limit compare
Bus	6940/6942 multiprogrammer bus
Manufacturer	HP Agilent Keysight
Mechanical Package	multiprogrammer plug-in card
Programming	via 6940B/6942A HP-IB
Documentation	HP 69771A digital input analog comparator card data
Application Class	ATE digital readback and analog limits
Related Extender	69501A
Related Memory Card	69791A high-speed memory card
Logic Family	TTL
Duty	continuous ATE I/O
System Family	HP 6940/69700 multiprogrammer cards
Card Role	input and comparator
Ate Use	go/no-go testing
Power	from the multiprogrammer backplane
Mounting	6940/69501 card slot
Control	programmed I/O
Companion Cards	analog output digital output memory in the 697xx family

69771A Specifications

PARAMETER	VALUE
HP Agilent 69771A Digital Input Analog Comparator Card	Overview
Applications	Digital status readback and analog limit comparison in 6940-based ATE.
Digital input plus analog comparator	6940B/6942A/69501A plug-in
Technical Specifications	Model: 69771A

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	
Specifications	
PARAMETER	VALUE
Model	69771A
Instrument Type	Digital input analog comparator card
Host Mainframes	HP 6940B 6942A 69501A
Digital Inputs	TTL level digital input
Analog Function	analog comparator / limit compare
Bus	6940/6942 multiprogrammer bus
Manufacturer	HP Agilent Keysight
Mechanical Package	multiprogrammer plug-in card
Programming	via 6940B/6942A HP-IB
Documentation	HP 69771A digital input analog comparator card data
Application Class	ATE digital readback and analog limits
Related Extender	69501A
Related Memory Card	69791A high-speed memory card
Logic Family	TTL
Duty	continuous ATE I/O
System Family	HP 6940/69700 multiprogrammer cards
Card Role	input and comparator
Ate Use	go/no-go testing
Power	from the multiprogrammer backplane
Mounting	6940/69501 card slot
Control	programmed I/O
Companion Cards	analog output digital output memory in the 697xx family
Notes	
From HP 69771A digital input / analog comparator card listings in the 6940B/69700 family. Channel counts are on the 69771A card data sheet matching the assembly.	

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
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

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