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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U9403A

Keysight U9403A Mini In-Circuit Test System 512 node 5U rack ICT The Keysight U9403A Mini ICT is a modular in-circuit tester in a 5U 19-inch rack package. OEM Mini ICT data sheet lists 512 maximum nodes, 256 digital driver/receiver channels, VTEP 2.0 vectorless test, per-pin programmable digital 0 to 5 V drive / 0 to 4.85 V receive, 2 MPS pattern rate, 100 V analog voltage measurement, 200 MHz frequency measurement, and 630 × 482.7 × 222.5 mm. Complementing existing manufacturing tests with ICT analog, digital, boundary-scan, and on-board programming in a compact rack. The Keysight U9403A Mini ICT is a modular in-circuit tester in a 5U 19-inch rack package. OEM Mini ICT data sheet lists 512 maximum nodes, 256 digital driver/receiver channels, VTEP 2.0 vectorless test, per-pin programmable digital 0 to 5 V drive / 0 to 4.85 V receive, 2 MPS pattern rate, 100 V analog voltage measurement, 200 MHz frequency measurement, and 630 × 482.7 × 222.5 mm. Complementing existing manufacturing tests with ICT analog, digital, boundary-scan, and on-board programming in a compact rack.

**MODEL****Agilent / Keysight
U9403A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****U9403A****LISTING**<https://aumictechlabs.com/products/u9403a-2/>

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NAICS 423690 · 811210 · 541380

This unit

The Keysight U9403A is a 5U rack-mounted in-circuit test (ICT) system analog and digital testing capabilities for printed circuit board assemblies within production environments. This 630 mm

wide instrument supports up to 512 test nodes with a true 1:1 per-pin programmable architecture and 500 mA driving capability, enabling vectorless testing through VTEP v2.0 and boundary scan technology per IEEE1149 standards. The system operates standalone or in parallel with internal or external sequencers, offering per-pin programmable digital tests, on-board device programming, DUT power control, and complete discharge features. SCPI command support via VISA-based test sequencers enables integration into existing test racks. Technical Specifications Form factor: 5U, 19-inch rack-mount System width: 630 mm Maximum node count: 512 Maximum parallel testing: 1 Per-pin architecture: 1:1 programmable with 500 mA driving capability Fixture actuation: Press down Operation modes: Standalone and parallel in-circuit test Key Features VTEP (Vectorless Test Equipment Protocol) v2.0 for testing without direct physical access IEEE1149 boundary scan for in-system programming and integrated circuit testing Cover-Extend Technology to enhance test coverage on devices without direct physical access Un-muxed per-pin programmable digital engine for flexible test development DUT power supply control with complete discharge capabilities Device-level failure diagnostics for improved board repairability SCPI command support for standard test sequencer integration Typical Applications The U9403A serves manufacturers performing analog and digital in-circuit diagnostics, boards requiring vectorless testing approaches, and production environments where fixture cost reduction and test point minimization are priorities. Compatibility & Integration The U9403A is part of the Keysight Medalist i1000D in-circuit test system family and integrates with instruments such as the Keysight x1149 to expand test coverage across mixed-signal PCBAs.

U9403A Characteristics / Specifications

PARAMETER	VALUE
Model	U9403A
Instrument Type	Mini in-circuit test system
Maximum Node Count	512
Maximum Digital Channels	256 driver/receiver
Digital Multiplexing	1:1 un-muxed
Per Pin Receiver Range	0 to 4.85 V
Per Pin Driver Range	0 to 5 V
Max Sink Current Peak	500 mA
Max Source Current Peak	500 mA
Pattern Rate Maximum	2 MPS
Vector Cycle Resolution	50 ns
Receive Delay Resolution	10 ns
Analog Voltage Measurement	100 V maximum
Frequency Measurement	200 MHz, 12 sets with frequency MUX card
Vtep	version 2.0
Boundary Scan	native with interconnect
On Board Programming	yes
Scpi Support	yes
External Power Supply Control	yes
Digital Libraries	Keysight VCL/PCF
Analog Tests	resistors capacitors inductors diodes transistors/FET jumpers
Dimensions	630 mmLx 482.7 mmWx 222.5 mmHRack Height: 5U
Rack Width	19 inch
Form Factor	rack mount modular ICT

U9403A Specifications

PARAMETER	VALUE
Applications	Complementing existing manufacturing tests with ICT analog, digital, boundary-scan, and on-board programming in a compact rack.
Key Features	Keysight VTEP 2.0 vectorless
Native boundary scan with interconnect	On-board programming
SCPI command support	Shares i3070 VCL/PCF digital libraries
Technical Specifications	Model: U9403A

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

From Keysight U9403A Mini In-Circuit Test System data sheet 5992-1367EN specification table. Related U9405A/U9405B configurations follow the Mini ICT family; confirm node cards on the installed chassis.

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.