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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E7922A

HP Agilent Keysight E7922A 4-Port 10/100 Ethernet Routing Card Queue model E7922A is the Agilent RouterTester 4-port 10/100 Ethernet routing card. OEM E7922A listings describe 10BASE-T/100BASE-TX wire-speed transmit and analysis, synchronized multi-port real-time measurements, routing emulation (E-BGP, I-BGP, OSPF, IS-IS, MPLS-TE), IP and Ethernet capture, IEEE 802.1Q VLAN, simultaneous IPv4 and IPv6, MAC addressing, protocol conformance and automation suites. Used to build a realistic network cloud around a router under test and stress forwarding tables. Queue model E7922A is the Agilent RouterTester 4-port 10/100 Ethernet routing card. OEM E7922A listings describe 10BASE-T/100BASE-TX wire-speed transmit and analysis, synchronized multi-port real-time measurements, routing emulation (E-BGP, I-BGP, OSPF, IS-IS, MPLS-TE), IP and Ethernet capture, IEEE 802.1Q VLAN, simultaneous IPv4 and IPv6, MAC addressing, protocol conformance and automation suites. Used to build a realistic network cloud around a router under test and stress forwarding tables. RouterTester benchmarking of 10/100 Ethernet routers: control-plane plus data-plane, dual-stack IPv4/IPv6, VLAN, and line-rate routing emulation.



MODEL

**Agilent / Keysight
E7922A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E7922A

LISTING

<https://aumictechlabs.com/products/e7922a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E7922A is a 4-port 10/100 Ethernet routing test card engineered for comprehensive testing and validation of network devices in R&D and manufacturing

environments. It generates and analyzes IP packets and Ethernet frames at line rate, supporting realistic testing of switches and routers with 10/100 interfaces. The module interoperates with other RouterTester variants (GbE and 10GbE) to construct scalable, Internet-scale test topologies.

Technical Specifications

- Interfaces 4 × 10/100 Ethernet ports (10BASE-T/100BASE-TX)
- 256 MB data capture RAM per module with line-rate capture capability
- LAN, timing synchronization, trigger I/O, and BNC interfaces
- Packet Generation and Analysis Simultaneous IPv4 and IPv6 packet generation and analysis for dual-stack router testing
- IEEE 802.1Q VLAN tagging support: up to 4095 VLAN IDs and 8 priority levels per port
- MAC layer addressing for layer 2 switch validation across configurable MAC address ranges
- Transmit, receive, and error statistics delivered in real-time tabular and graphical formats at IP, Link, and Physical layers
- Routing and Network Emulation Emulates E-BGP, I-BGP, OSPF, IS-IS, and MPLS-TE routing protocols at line rate
- Large-scale route emulation with flexible attributes for forwarding table stress testing
- Route flap convergence measurement and data loss quantification during topology changes
- Capture and Analysis Triggered data capture (manual, event-based, pattern-match, threshold, or error-condition driven)
- Protocol decoding: BGP-4, OSPF, IS-IS, and full Ethernet frame decode
- Per-port, per-stream, and per-VLAN-ID statistics for transmitted and received traffic
- Latency and packet loss measurement via synchronized packet timestamping

Typical Applications

- Route convergence testing, switch fabric validation, forwarding table capacity benchmarking, dual-stack IPv4/IPv6 interoperability validation, and VLAN configuration verification.

Compatibility & Integration

Interoperates with RouterTester GbE and 10GbE modules to build modular, multi-port test systems.

E7922A Characteristics / Specifications

PARAMETER	VALUE
Model	E7922A
Instrument Type	4-port 10/100 Ethernet routing test card
Port Count	4
Ethernet	10BASE-T / 100BASE-TX wire-speed transmit and analysis
Routing Emulation	E-BGP, I-BGP, OSPF, IS-IS, MPLS-TE
Vlan	IEEE 802.1Q
Ip Versions	simultaneous IPv4 and IPv6 generation and analysis
Capture	IP and Ethernet data capture
Sync	synchronized multi-port measurements in real time
Mac	MAC addressing support
Suites	protocol conformance and automation test suites
Host System	Agilent RouterTester
Manufacturer	HP Agilent Keysight
Literature	Agilent E7922A 4-port 10/100 Ethernet routing card listings
Family	RouterTester Ethernet routing cards
Form Factor	RouterTester plug-in card
System Role	router control-plane and data-plane benchmark
Application Class	carrier and equipment-manufacturer router test
Brand Lineage	Hewlett Packard Agilent Keysight
Speed Class	10/100 Ethernet wire speed
Port Class	4-port 10/100
Protocol Class	BGP OSPF IS-IS MPLS-TE
Stack Class	dual-stack IPv4/IPv6
Vlan Class	802.1Q
Capture Class	IP and Ethernet

PARAMETER	VALUE
Use Case	realistic network-cloud stress of SUT forwarding tables
Documentation Type	OEM E7922A RouterTester card listing

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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PARAMETER	VALUE
Documentation Type	OEM E7922A RouterTester card listing
Notes From Agilent E7922A 4-port 10/100 Ethernet routing card listings (wire-speed 10/100, BGP/OSPF/IS-IS/MPLS-TE, 802.1Q, dual-stack). Packet-rate tables belong on the RouterTester E7922A specification.	

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.