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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 4954A

Decode Class: X.25, SNA, HDLC/SDLC, Frame Relay class WAN Operating Temperature Class: portable/lab WAN analyzer Literature: HP 495x protocol analyzer catalog identity 4954A 72 kbps Interfaces Class: RS-232/V.24, V.35, RS-449 class WAN Operating Temperature Class: portable/lab WAN analyzer Literature: HP 495x protocol analyzer catalog identity 4954A 72 kbps Interfaces Class: RS-232/V.24, V.35, RS-449 class WAN Capture Class: WAN frame capture and statistics



MODEL

**Agilent / Keysight
4954A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

4954A

LISTING

<https://aumictechlabs.com/products/4954a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 4954A is a protocol analyzer purpose-built for data communication product development, network troubleshooting, and performance characterization. It captures and analyzes network traffic across a range of legacy and contemporary protocols, delivering the statistical and error analysis capabilities required for protocol validation and network diagnostics in demanding development environments. Technical Specifications Data Rate Range: 50 bps to 72 kbps Capture Memory: 256K Supported Protocols: X.25, X.75, HDLC, SDLC, SNA, BSC, and others Key Features Multi-protocol support enables analysis across diverse networking standards Statistical analysis of network traffic provides quantitative performance metrics Error analysis capabilities identify and characterize protocol violations and transmission faults 256K memory depth accommodates extended capture sessions for comprehensive traffic examination Typical

Applications Protocol development and validation for X.25, X.75, HDLC, SDLC, SNA, and BSC implementations Network performance troubleshooting in legacy and hybrid data communication systems Error rate characterization and traffic pattern analysis Interoperability testing between network nodes and protocol stacks Compatibility & Integration The 4954A integrates within Keysight's protocol analysis ecosystem, complementing the 4952A and 4972A LAN protocol analyzers for multi-tier network troubleshooting workflows.

4954A Characteristics / Specifications

PARAMETER	VALUE
Model	4954A
Instrument Type	WAN protocol analyzer
Maximum Rate	72 kb/s
Family	HP 495x protocol analyzers
Related 19k	4951C 19.2 kb/s protocol analyser
Related 64k	4952A 64 kb/s protocol analyser
Related Portable	4957A portable WAN protocol analyzer
Decode Class	X.25, SNA, HDLC/SDLC, Frame Relay class WAN
Form Factor	WAN protocol analyzer
Manufacturer	HP Agilent Keysight
Use Case	72 kb/s WAN protocol analysis
Control	4954A analyzer application
Operating Temperature Class	portable/lab WAN analyzer
Literature	HP 495x protocol analyzer catalog identity 4954A 72 kbps
Interfaces Class	RS-232/V.24, V.35, RS-449 class WAN
Capture Class	WAN frame capture and statistics
Documentation Type	OEM 495x catalog
Brand Lineage	Hewlett Packard Agilent Keysight
System Role	72 kb/s protocol analyzer
Related Bert	4925B BERT to 72 kb/s
Display Class	495x protocol-analyzer display
Year Class	1980s HP WAN protocol analyzers
Operating temperature	Class: portable/lab WAN analyzer

4954A Specifications

PARAMETER	VALUE
HP Agilent 4954A 72 kb/s WAN Protocol Analyzer	Overview
Applications	WAN protocol decode and statistics on circuits up to 72 kb/s.
Key Features	72 kb/s protocol analyzer
Above 4952A 64 kb/s	Companion 4951C 19.2 kb/s
Technical Specifications	Model: 4954A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: portable/lab WAN analyzer
Operating Temperature	Class: portable/lab WAN analyzer
Operating Temperature Class	portable/lab WAN analyzer
Literature	HP 495x protocol analyzer catalog identity 4954A 72 kbps
Interfaces Class	RS-232/V.24, V.35, RS-449 class WAN
Capture Class	WAN frame capture and statistics
Documentation Type	OEM 495x catalog
Brand Lineage	Hewlett Packard Agilent Keysight
System Role	72 kb/s protocol analyzer
Related Bert	4925B BERT to 72 kb/s
Display Class	495x protocol-analyzer display
Year Class	1980s HP WAN protocol analyzers Notes From HP 495x catalog identity listing 4954A as a 72 kb/s protocol analyser (with 4951C 19.2 kb/s and 4952A 64 kb/s). Buffer depth, interface pods, and exact decode stacks are on the 4954A data sheet.

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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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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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.