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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 85101A

HP Agilent 85101A 8510A Network Analyzer Display Processor The HP 85101A is the display/processor (top box) of the original 8510A vector network analyzer. OEM 8510-family literature describes a microprocessor-based controller providing magnitude, phase, and group delay measurements from 45 MHz with broadband 851XA test sets and a compatible synthesized or sweep source. Modular microwave VNA control and display for 8510A systems from 45 MHz to 26.5 GHz with 8514/8515-class test sets. Microprocessor-based 8510A system controller The HP 85101A is the display/processor (top box) of the original 8510A vector network analyzer. OEM 8510-family literature describes a microprocessor-based controller providing magnitude, phase, and group delay measurements from 45 MHz with broadband 851XA test sets and a compatible synthesized or sweep source. Modular microwave VNA control and display for 8510A systems from 45 MHz to 26.5 GHz with 8514/8515-class test sets. Microprocessor-based 8510A system controller S-parameter magnitude, phase, and group delay

**MODEL****Agilent / Keysight
85101A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****85101A****LISTING**<https://aumictechlabs.com/products/85101a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

Temperature: 10°C to +40°C (operating); -40°C to +70°C (non-operating) Humidity: Up to 90% non-condensing at +40°C (operating); up to 95% at +65°C (non-operating) Altitude: Up to 4,600 meters (15,000 ft) operating; up to 15,300 meters (50,000 ft) non-operating Compatibility &

Integration The 85101A integrates directly with the Agilent/Keysight 8510A network analyzer as a dedicated display processor component. It connects to the 8510A measurement engine and provides the primary operator interface for system control and real-time measurement display.

85101A Characteristics / Specifications

PARAMETER	VALUE
Model	85101A
Instrument Type	8510A network analyzer display/processor
Family Frequency Start	45 MHz
Family Frequency 8510T	45 MHz to 26.5 GHz
Partner Test Set 8515A	45 MHz to 26.5 GHz 3.5 mm
Partner Test Set 8514 Class	45 MHz to 20 GHz class
Partner Source 8510T	8340A synthesized sweeperSParameters: S11 S21 S12 S22
Measurement Types	magnitude phase group delay
Bus	HP-IB
Manufacturer	HP Agilent Keysight
Form Factor	8510A top-box display/processor
Related Display 85101B	8510B display/processor
Related Display 85101C	8510C color display/processor
Related If Detector	85102A/B IF/detector bottom box
Time Domain Option Class	Option 010 on 8510A systems
System Bundle	8510T included 8510A, 8515A, 8340A
Calibration Kits Class	3.5 mm and 7 mm coaxial
Use Case	microwave vector network analysis
Remote Control	HP-IB
Sweep Partner	8350B or 8340/8360-class sources
Two Port Networks	linear characterization
Form Factor Depth	8510 two-box analyzer

85101A Specifications

PARAMETER	VALUE
Applications	Modular microwave VNA control and display for 8510A systems from 45 MHz to 26.5 GHz with 8514/8515-class test sets.
Key Features	Microprocessor-based 8510A system controller
Technical Specifications	Model: 85101A

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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Measurement Types	magnitude phase group delay
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Related Display 85101C	8510C color display/processor
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Notes

From HP 8510A/8510T family descriptions (45 MHz to 26.5 GHz with 8515A/8340A). Display size and color belong to later 85101C; use the 8510A operating manual for CRT details.

Ordering Information

OPTION	DESCRIPTION
Option 010	on 8510A systems

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

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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.