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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 85103C

HP Agilent 85103C 8510C IF Detector / Processor Companion Module The HP 85103C is an 8510C-family IF/processor companion module in the 85102/85103 IF-detector lineage. OEM 8510C service block diagrams identify 85102C as IF/Detector and 85101C as display/processor; 85103C is the related 8510C IF/processor hardware used in 45 MHz to 50/110 GHz 8510C systems. IF detection/processing in 8510C VNA systems with 8517A 50 GHz or mm-wave test sets. Instrument Type: 8510C IF/processor companion The HP 85103C is an 8510C-family IF/processor companion module in the 85102/85103 IF-detector lineage. OEM 8510C service block diagrams identify 85102C as IF/Detector and 85101C as display/processor; 85103C is the related 8510C IF/processor hardware used in 45 MHz to 50/110 GHz 8510C systems. IF detection/processing in 8510C VNA systems with 8517A 50 GHz or mm-wave test sets. Instrument Type: 8510C IF/processor companion Family Frequency Coax 2p4 Mm: 45 MHz to 50 GHz



MODEL

**Agilent / Keysight
85103C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85103C

LISTING

<https://aumictechlabs.com/products/85103c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 85103C is a precision 7mm verification kit engineered to validate the performance and calibration accuracy of Agilent/Keysight 8510 network analyzer systems. This kit has the essential standards required to verify magnitude and phase accuracy in demanding laboratory and field environments. Measurement data and uncertainties are traceable to NIST,

ensuring metrological integrity across all characterization work.

Technical Specifications

Connector Type: 7mm **Measurement Verification:** Magnitude and phase accuracy **Traceability:** NIST-traceable measurement data and uncertainties **Primary Application:** Agilent/Keysight 8510 Network Analyzer System verification

Key Features

- Precision standards for system performance characterization
- Fixed attenuators (20 dB and 50 dB nominal)
- Precision Zo airline (10 cm beadless design)
- Mismatched or stepped impedance airline standards (10 cm beadless, 25 ohms nominal)
- Artifact standards for comprehensive verification

Typical Applications

- Network analyzer calibration verification and validation
- Periodic system performance confirmation
- Magnitude and phase measurement accuracy assessment
- Laboratory characterization and acceptance testing
- Engineering and integration environments requiring traceable measurement confidence

Compatibility & Integration

The 85103C integrates directly with Agilent/Keysight 8510 network analyzer systems. These modular analyzer platforms support various test sets and sources, enabling configuration across extended frequency ranges. The 7mm connector architecture aligns with precision measurement applications and higher-frequency test configurations typical of advanced network analysis systems.

85103C Characteristics / Specifications

PARAMETER	VALUE
Model	85103C
Instrument Type	8510C IF/processor companion
Family Frequency Coax 2p4 Mm	45 MHz to 50 GHz
Family Frequency Coax 1p0 Mm	45 MHz to 110 GHz
Family Frequency Waveguide	33 GHz to 110 GHz
Partner Display	85101C
Partner If Detector	85102C
Partner Test Set 8517A	50 GHz 2.4 mm
Partner Source	8360 seriesSParameters: S11 S21 S12 S22
Time Domain	Option 010
Pulse Profile	Option 008
Manufacturer	HP Agilent Keysight
Form Factor	8510C system module
Bus	HP-IB via 85101C
Related 85103d	85103D
Related 85103e	85103E
Literature	8510C 5091-8484E
Sweep Ramp Accuracy Class	plus or minus 0.1 percent of span with 8360
Use Case	8510C VNA IF processing
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications

85103C Specifications

PARAMETER	VALUE
Applications	IF detection/processing in 8510C VNA systems with 8517A 50 GHz or mm-wave test sets.
Key Features	8510C IF/processor companion
Pairs with 85101C display	Supports Option 010 time domain
Supports Option 008 pulse profile	Works with 8360 ramp/step sweep
Technical Specifications	Model: 85103C

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	
Technical Specifications	
PARAMETER	VALUE
Model	85103C
Instrument Type	8510C IF/processor companion
Family Frequency Coax 2p4 Mm	45 MHz to 50 GHz
Family Frequency Coax 1p0 Mm	45 MHz to 110 GHz
Family Frequency Waveguide	33 GHz to 110 GHz
Partner Display	85101C
Partner If Detector	85102C
Partner Test Set 8517A	50 GHz 2.4 mm
Partner Source	8360 series
S Parameters	S11 S21 S12 S22
Time Domain	Option 010
Pulse Profile	Option 008
Manufacturer	HP Agilent Keysight
Form Factor	8510C system module
Bus	HP-IB via 85101C
Related 85103d	85103D
Related 85103e	85103E
Literature	8510C 5091-8484E
Sweep Ramp Accuracy Class	plus or minus 0.1 percent of span with 8360
Use Case	8510C VNA IF processing
Brand Lineage	Hewlett Packard Agilent Keysight
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PARAMETER	VALUE
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PARAMETER	VALUE
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Family Frequency Coax 1p0 Mm	45 MHz to 110 GHz
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Partner Display	85101C
Partner If Detector	85102C
Partner Test Set 8517A	50 GHz 2.4 mm
Partner Source	8360 seriesSParameters: S11 S21 S12 S22
Time Domain	Option 010
Pulse Profile	Option 008
Manufacturer	HP Agilent Keysight
Form Factor	8510C system module
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Related 85103d	85103D
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Literature	8510C 5091-8484E
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Use Case	8510C VNA IF processing
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications

Notes

Family frequency and option rows from Agilent 8510C data sheet 5091-8484E. 85103C is the 8510C IF/processor companion; noise floor is test-set dependent.

Ordering Information

OPTION	DESCRIPTION
Option 010	time domain
Option 008	pulse profile

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.