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Data Sheet

August 14, 2026

AGILENT

Agilent 8757E 110 GHz Scalar Network Analyzer

The HP 8757E is a scalar network analyzer with two display channels and three detector inputs. OEM HP 8757D/E data sheet lists a high-resolution monochrome display, +16 to minus 60 dBm dynamic range class, AC/DC detection, and 101/201/401 points per trace. Swept insertion loss, gain, return loss, and SWR using 85025/85026 detectors and 85027 directional bridges; noise-figure display capability; HP-IB automated scalar test. Two independent display channels and three detector inputs. Compatible with 8757A/C programming codes. Modulator Drive Frequency: 27778 Hz $\pm$ 12 Hz. Hpib Transfer Binary 401 Points Typical: 30 ms typical. Compatible Detectors: 85025, 85026, 85027 series (not 85037). Numeric rows from HP 8757D/E Scalar Network Analyzers Technical Specifications. 8757E does not support 85037 precision detectors or the internal power calibrator.



MODEL

Agilent 8757E

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

8757E

LISTING

<https://aumictechlabs.com/products/8757e-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent 8757E is a scalar network analyzer delivering magnitude and phase measurements across 10 MHz to 110 GHz, with coaxial coverage to 50 GHz and waveguide extension to 110 GHz. It measures insertion loss, gain, return loss, SWR, power, and noise figure with a 75 dB dynamic range and dual independent display channels. Two independent display channels and three detector inputs enable simultaneous multi-parameter characterization. The instrument supports ratioed and non-ratioed measurements in both AC (27.778 kHz $\pm$ 12 Hz modulation) and DC

modes, with trace resolutions of 101, 201, or 401 points and minimum sweep times as low as 40 ms. Averaging of up to 256 successive traces and configurable smoothing (0.1% to 20% aperture) reduce noise and improve measurement stability. An internal power meter calibrator option provides ± 0.05 dB accuracy at 0 dBm across the +20 to -50 dBm range with ≤ 1.05 SWR.

Technical Specifications

Frequency Range: 10 MHz to 110 GHz (coaxial to 50 GHz; waveguide to 110 GHz)
Dynamic Range: 75 dB (+16 dBm to -60 dBm)
Display Channels: 2 independent channels
Detector Inputs: 3 inputs (Type N female)
Measurement Modes: Ratioed/non-ratioed; AC at 27.778 kHz ± 12 Hz; DC unmodulated
Trace Resolution: 101, 201, or 401 points
Sweep Time: 40–100 ms typical (1–2 traces, 101–401 points)
Averaging: 2 to 256 successive traces
Smoothing: Linear moving average, 0.1% to 20% aperture
Power Meter Calibrator Accuracy: ± 0.05 dB at 0 dBm; linearity ± 0.04 – 0.08 dB across +20 to -50 dBm
AUX Voltage Input: -10 to +10 V (rear panel BNC; ± 60 mV typical error)

Key Features

- Dual independent display channels for simultaneous parameter tracking
- Three detector inputs enable multi-port and bridge-based measurements
- Optional internal power meter calibrator with high linearity
- Trace normalization stored at highest resolution
- Internal plotter/printer buffer for documentation

Typical Applications

- Component characterization in aerospace and defense
- Filter and amplifier design and validation
- Transmission and reflection measurements on RF/microwave devices
- Power and SWR monitoring in production and field environments

Compatibility & Integration

The 8757E integrates with Agilent/Keysight 85025, 85026, and 85027 series detectors, as well as 11664 series detectors for extended measurement capability.

Physical: 178 H $\times$ 425 W $\times$ 482 D mm; 22 kg net (28 kg shipping)

8757E Characteristics / Specifications

PARAMETER	VALUE
Model	8757E
Instrument Type	Scalar network analyzer
Frequency Coverage With Compatible Detectors	10 MHz to 110 GHz class, detector and source dependent
Display Channels	2 independent display channels
Detector Inputs	3
Display Type	high resolution monochrome
Horizontal Points	101, 201, 401
Dynamic Range Class	+16 to minus 60 dBm class with compatible detectors
Detection Modes	AC and DC
Ac Modulation Frequency	27778 Hz $\pm$ 20 Hz
Ac Modulation On Off Ratio	$\geq$ 30 dB
Vertical Resolution Dbm	0.003 dB (0.01 dB cursor)
Display Scale Dbm	0.1 to 20 dB/div, minus 80 to +80 dBm
Display Scale Db	0.1 to 20 dB/div, minus 90 to +90 dB
Swr Display Range	1.0 to 37.0
Aux Voltage Range	minus 10 to +10 V
Averaging Factors	2, 4, 8, 16, 32, 64, 128, or 256 traces
Smoothing Aperture	0.1% to 20% of trace width
Internal Save Recall Registers	9 complete front-panel states
Sweep In Voltage	0 to 10 V from sweeper
Modulator Drive Frequency	27778 Hz $\pm$ 12 Hz
Hpib Transfer Binary 401 Points Typical	30 ms typical
Operating Temperature	0 C to 55 C
Storage Temperature	minus 40 C to 75 C
Compatible Detectors	85025, 85026, 85027 series (not 85037)

PARAMETER	VALUE
Remote Interface	HP-IB IEEE 488-1978

8757E Specifications

PARAMETER	VALUE
HP Agilent 8757E Scalar Network Analyzer	Overview
AC and DC detection modes	Compatible with 8757A/C programming codes
Internal plotter/printer buffer	Cursor max/min search
Technical Specifications	Model: 8757E

General Specifications & Supplementary Characteristics

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Remote Interface	HP-IB IEEE 488-1978 Notes Numeric rows from HP 8757D/E Scalar Network Analyzers Technical Specifications. 8757E does not support 85037 precision detectors or the internal power calibrator.

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
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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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NIST-traceable calibration · SAM registered ·
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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.