

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 8757C Scalar Network Analyzer

HP Agilent Keysight 8757C Scalar Network Analyzer 10 MHz to 110 GHz class The HP/Agilent 8757C is a color scalar network analyzer for transmission and reflection from 10 MHz to 110 GHz depending on detectors and bridges. OEM 8757C/E comparison tables list 76 dB dynamic range (plus 16 to minus 60 dBm), four display channels, 101 to 1601 points, AC/DC detection, limit testing, and external disk save/recall. Swept insertion loss, gain, return loss, SWR, and power with 85025/85026 detectors and 85027 bridges, plus pass/fail production with limit lines. The HP/Agilent 8757C is a color scalar network analyzer for transmission and reflection from 10 MHz to 110 GHz depending on detectors and bridges. OEM 8757C/E comparison tables list 76 dB dynamic range (plus 16 to minus 60 dBm), four display channels, 101 to 1601 points, AC/DC detection, limit testing, and external disk save/recall. Swept insertion loss, gain, return loss, SWR, and power with 85025/85026 detectors and 85027 bridges, plus pass/fail production with limit lines. Four display channels and up to 1601 points



MODEL

**Agilent / Keysight
8757C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8757C

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 8757C Scalar Network Analyzer measures amplitude and frequency response across RF and microwave components with 76 dB dynamic range. This instrument

performs insertion loss, gain, return loss, SWR, and power measurements from 10 MHz to 50 GHz in coaxial systems and up to 110 GHz in waveguide configurations. It delivers simultaneous ratio and non-ratio measurements of transmission and reflection characteristics with configurable measurement resolution up to 1601 points per trace.

Technical Specifications

Frequency Range 10 MHz to 50 GHz (coaxial systems) Up to 110 GHz (waveguide systems)

Dynamic Range 76 dB (–60 dBm to +16 dBm)

Measurement Accuracy Transmission Loss/Gain: $\pm(0.1 \text{ dB} + 0.01 \text{ dB/dB})$ for ≤ 20 dB power change within +10 to –40 dBm using HP 11664A/E detectors

Reflection measurements: Calibration and frequency response errors removed via open/short averaging

Data Acquisition Horizontal resolution: 101, 201, 401, 801, or 1601 points per trace

Transfer speed (401-point ASCII): 500 ms typical

Transfer speed (single-point binary): 5–7 ms typical

Averaging: 2 to 256 successive traces

Smoothing aperture: 0.1% to 20% of trace width

Detector Configuration Three detector inputs standard Optional fourth detector input (Option 001) Four independent display channels

Key Features AC mode (modulated RF) for measurements amid undesired signals DC detection for swept-frequency power measurements Precision color display with operator-selectable CRT attributes Binary and ASCII data format support External disk and internal register save/recall Built-in limit testing for pass/fail decisions

Measurement Capabilities Insertion loss Gain Return loss Standing Wave Ratio (SWR) Power measurements Simultaneous transmission and reflection characterization

8757C Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Scalar network analyzer
Series Family	HP Agilent 8757C/D/E
Display	color
Display Channels	4
Detector Inputs	3 standard; 4 with Option 001
Dynamic Range	76 dB
Dynamic Range Power	plus 16 to minus 60 dBm
Detection Modes	AC and DC
Measurement Points Selectable	101, 201, 401, 801, 1601
Max Points 1 Channel	1601
Max Points 2 Channels	801
Max Points 3 or 4 Channels	401
Plotter Printer Buffer	yes
Noise Figure Display	yes
External Disk Save Recall	yes
Internal Save Recall Registers	9
Limit Testing	channels 1 and 2
Adaptive Normalization	yes
Cursor Search	max, min, bandwidth, n dB
SWR Display Mode	yes
Modulation Frequency AC	27.778 kHz class square wave
Detector Compatibility	HP 85025/85026 series and HP 85027 bridges
Detector 11664 Compatibility	AC mode with 11664 series
Frequency Span Class	10 MHz to 110 GHz with adapters/detectors
Coax Systems	20 GHz (8757XA) or 40 GHz (8757XB) packaged systems

PARAMETER	VALUE
Directivity Class 85027A/B/D	greater than 40 dB to 20 GHz
Directivity Class 85027D	greater than 25 dB to 47 GHz
Remote Interface	HP-IB
Operating Temperature	0 to 55 C
Power Requirements Class	48 to 66 Hz, 100/120/220/240 V plus or minus 10 percent
Form Factor	178 mmHby 425 mmWby 482 mmDclass of 8757D/E
Net Weight Class	22 kg (48 lb) class of 8757D/E
Minimum Sweep Time 401 Points 1 Trace	100 ms (8757D/E table)

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 55 C
Operating Temperature	0 to 55 C
Power Requirements Class	48 to 66 Hz, 100/120/220/240 V plus or minus 10 percent
Form Factor	178 mmHby 425 mmWby 482 mmDclass of 8757D/E
Net Weight Class	22 kg (48 lb) class of 8757D/E
Minimum Sweep Time 401 Points 1 Trace	100 ms (8757D/E table) Notes Numeric rows from HP 8757C/E scalar network analyzer comparison and 8757D/E technical specifications family pages. 8757C matches 8757D-class channel/point/limit/disk features with color CRT; confirm any 8757C-only CRT timing on the 8757C 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	
Specifications	
PARAMETER	VALUE
Instrument Type	Scalar network analyzer
Series Family	HP Agilent 8757C/D/E
Display	color
Display Channels	4
Detector Inputs	3 standard; 4 with Option 001
Dynamic Range	76 dB
Dynamic Range Power	plus 16 to minus 60 dBm
Detection Modes	AC and DC
Measurement Points Selectable	101, 201, 401, 801, 1601
Max Points 1 Channel	1601
Max Points 2 Channels	801
Max Points 3 or 4 Channels	401
Plotter Printer Buffer	yes
Noise Figure Display	yes
External Disk Save Recall	yes
Internal Save Recall Registers	9
Limit Testing	channels 1 and 2
Adaptive Normalization	yes
Cursor Search	max, min, bandwidth, n dB
SWR Display Mode	yes
Modulation Frequency AC	27.778 kHz class square wave
Detector Compatibility	HP 85025/85026 series and HP 85027 bridges
Detector 11664 Compatibility	AC mode with 11664 series
Frequency Span Class	10 MHz to 110 GHz with adapters/detectors
Coax Systems	20 GHz (8757XA) or 40 GHz (8757XB) packaged systems
Directivity Class 85027A/B/D	greater than 40 dB to 20 GHz

PARAMETER	VALUE
Directivity Class 85027D	greater than 25 dB to 47 GHz
Remote Interface	HP-IB
Operating Temperature	0 to 55 C
Power Requirements Class	48 to 66 Hz, 100/120/220/240 V plus or minus 10 percent
Form Factor	178 mmHby 425 mmWby 482 mmDclass of 8757D/E
Net Weight Class	22 kg (48 lb) class of 8757D/E
Minimum Sweep Time 401 Points 1 Trace	100 ms (8757D/E table)

Notes

Numeric rows from HP 8757C/E scalar network analyzer comparison and 8757D/E technical specifications family pages. 8757C matches 8757D-class channel/point/limit/disk features with color CRT; confirm any 8757C-only CRT timing on the 8757C sheet.

Ordering Information

OPTION	DESCRIPTION
Option 001	Dynamic Range: 76 dB

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
788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.