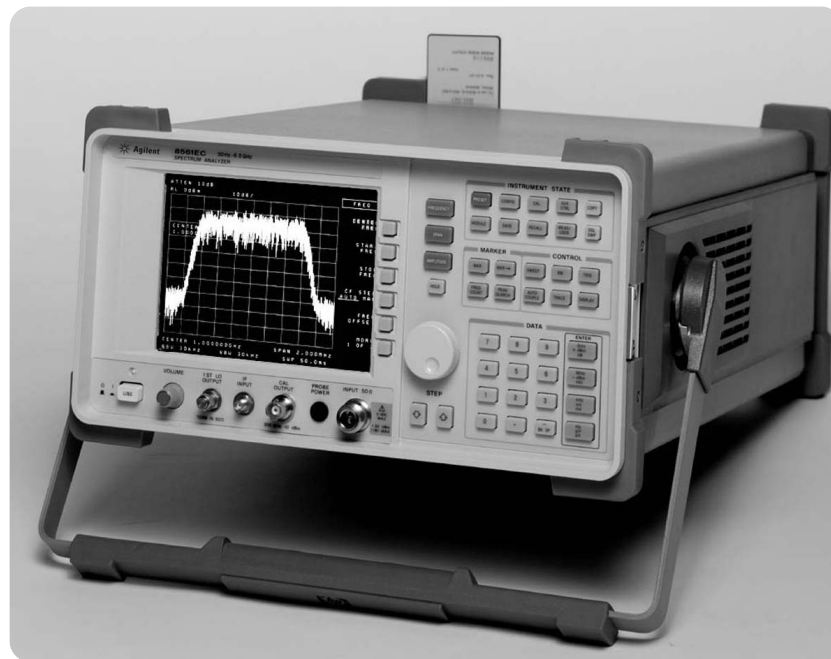


Agilent 8560 EC-Series Spectrum Analyzers and Accessories

Configuration Guide



Introduction

The Agilent Technologies 8560 EC-Series spectrum analyzers have a color display, offer standard digitized fast time domain sweeps (Option 856xEC-007 on the 8560 E-Series), and are Class 3 MIL-rugged. The 8560 EC-Series is identical to the 8560 E-Series in all other respects.

Agilent 8560 EC-Series options

To add options to a product, use the following ordering scheme:

Model: 856xEC (x = 0, 1, 2, 3, 4, or 5)

Model option example: 856xEC-Option 001

Agilent 8560EC RF Spectrum Analyzer

(30 Hz to 2.9 GHz)

Agilent 8561EC RF Spectrum Analyzer*

(30 Hz to 6.5 GHz)

Agilent 8562EC RF Spectrum Analyzer

(30 Hz to 13.2 GHz)

Agilent 8563EC Microwave Spectrum Analyzer

(9 kHz to 26.5 GHz)

Agilent 8564EC Millimeter-wave Spectrum Analyzer

(9 kHz to 40 GHz)

Agilent 8565EC Millimeter-wave Spectrum Analyzer

(9 kHz to 50 GHz)

*Discontinued product. Please order 8562EC instead.



Agilent Technologies

Agilent 8560 EC-Series options

• = compatible options Std = standard configuration

Option	Description	8560EC	8561EC	8562EC	8563EC	8564EC	8565EC
Frequency range							
856x-006	Frequency coverage down to 30 Hz	Std	Std	Std	•	•	•
Signal identification							
856x-008	Adds signal identification ¹¹	•	•	•	•	•	•
Frequency reference							
856x-103	Delete precision frequency reference (discontinued option) ¹¹	•	•	•	•	•	•
Memory module							
856x-104	Delete 85620A mass memory module	•	•	•	•	•	•
Inputs and outputs							
856x-001	Add second IF output, rear panel connector (310.7 MHz)	•	•	•	•	•	•
856x-005	Add alternate sweep output ¹	•	•	•	•	•	•
Input connection							
856x-026	APC 3.5 mm input connector				•		
Refurbish unit							
856x-RMKT	Refurbished spectrum analyzer (as available)	Contact an Agilent representative for availability					
Calibration documentation							
856x-UK6	Commercial calibration certificate with test data	•	•	•	•	•	•
Accessories							
856x-908	Rack mount kit without handles	•	•	•	•	•	•
856x-909	Rack mount kit with handles	•	•	•	•	•	•
856x-042	Gray spectrum analyzer backpack	•	•	•	•	•	•
856x-044	Yellow spectrum analyzer backpack	•	•	•	•	•	•
856xEC-B70	BenchLink spectrum analyzer software	•	•	•	•	•	•
Documentation							
856x-0B0	Delete manual set	•	•	•	•	•	•
856x-AB2	Chinese localization (user's guide and quick reference guide)	•	•	•	•	•	•
856x-ABD	German localization (user's guide and quick reference guide)	•	•	•	•	•	•
856x-ABE	Spanish localization (user's guide and quick reference guide)	•	•	•	•	•	•
856x-ABF	French localization (user's guide and quick reference guide)	•	•	•	•	•	•
856x-ABJ	Japanese localization (user's guide and quick reference guide)	•	•	•	•	•	•
856x-ABZ	Italian localization (user's guide and quick reference guide)	•	•	•	•	•	•
Additional documentation							
856x-915	Service guide (and component level information manual)	•	•	•	•	•	•
856x-910	Extra user's manual set (user's guide, calibration guide, mass memory module, manual, and quick reference guide)	•	•	•	•	•	•
856x-916	Extra pocket-sized quick reference guide (English)	•	•	•	•	•	•

Agilent 8560 Series application measurement cards/measurement personalities²

• = compatible cards/personalities Std = standard configuration

Model	Description	8560EC	8561EC	8562EC	8563EC	8564EC	8565EC
85629B	Test and adjustment module	•	•	•	•	•	•
85671A	Phase noise measurements utility	•	•	•	•	•	•
85672A	Spurious response measurements utility	•	•	•	•	•	•
85710A	Digital radio measurements personality	• ⁷	• ⁷	•	•	•	•
85620A	Mass memory module	• ¹⁰	• ¹⁰	• ¹⁰	• ¹⁰	• ¹⁰	• ¹⁰

Agilent 8560 Series measurement cards/measurement personalities options

Option	Description	8560EC	8561EC	8562EC	8563EC	8564EC	8565EC
Documentation							
85671A-ABZ	Italy - Italian localization (includes US English)	•	•	•	•	•	•
85672A-ABJ	Japan - Japanese localization (includes US English)	•	•	•	•	•	•
85672A-ABZ	Italy - Italian localization (includes US English)	•	•	•	•	•	•
85620A-ABF	France - French localization (includes US English)	•	•	•	•	•	•
85620A-ABJ	Japan - Japanese localization (includes US English)	•	•	•	•	•	•
85620A-ABZ	Italy - Italian localization (includes US English)	•	•	•	•	•	•
85620A-910	Extra user's manual set	•	•	•	•	•	•
PC software							
Model	Description	8560EC	8561EC	8562EC	8563EC	8564EC	8565EC
E4444A	BenchLink spectrum analyzer software	•	•	•	•	•	•

Agilent 8560 EC-Series accessories

For scalar measurements

- 85640A** Tracking generator (300 kHz to 2.9 GHz)
- 8721A** Directional bridge
- 11852B** Option C04 50 to 75 ohm minimum loss pad
- 86205A** 50 ohm bridge (300 kHz to 6 GHz)

For extended frequency measurements

- 11974A** Preselected mm mixer (26.5 GHz to 40 GHz)^{3,6}
- 11974Q** Preselected mm mixer (33 GHz to 50 GHz)^{3,6}
- 11974U** Preselected mm mixer (40 GHz to 60 GHz)^{3,6}
- 11974V** Preselected mm mixer (50 GHz to 75 GHz)^{3,6}
- 11970K** mm harmonic mixer (18 GHz to 26.5 GHz)^{3,5}
- 11970A** mm harmonic mixer (26.5 GHz to 40 GHz)^{3,5}
- 11970Q** mm harmonic mixer (33 GHz to 50 GHz)^{3,5}
- 11970U** mm harmonic mixer (40 GHz to 60 GHz)^{3,5}
- 11970V** mm harmonic mixer (50 GHz to 75 GHz)^{3,5}
- 11970W** mm harmonic mixer (75 GHz to 110 GHz)^{3,5}

Amplifiers and preamplifiers

- 8447A** Preamplifier (100 kHz to 400 MHz, 20 dB gain)
- 8447D** Preamplifier (100 kHz to 1.3 GHz, 25 dB gain)
- 8449B** Preamplifier (1 GHz to 26.5 GHz, 30 dB gain)
- 10855A** Broadband preamplifier (2 MHz to 1300 MHz, 22 dB gain)
- 83006A** 10 MHz to 26.5 GHz preamplifier (20 dB gain)
- 83051A** 45 MHz to 50 GHz preamplifier (23 dB gain)

Printers

The printer compatibility guide is on-line at www.agilent.com/find/pcg/

- ITEL-45 CHVUB** GPIB/parallel converter (North America, Japan, Korea, and Taiwan)
- ITEL-45 CHVEB** GPIB/parallel converter (continental Europe, U.K., Australia, and South Africa) (requires Agilent F1011A AC adapter)
- 10833A** GPIB cable (1 meter)
- C2950A** Parallel printer cable (2 meters)

Other accessories

- 85620A** Mass memory module (standard on Agilent 8560 EC-Series)
- 85629B** Test and adjustment module (limited use on Agilent 8562EC/64EC/65EC)
- 85700A** 32-Kbyte RAM memory card²
- 85702A** 128-Kbyte RAM memory card²
- 85901A** Portable AC power source (for use with Agilent 8560EC/61EC/62E/63EC)
- 85902A** Burst carrier trigger
- 41800A** Active probe (5 Hz to 500 MHz)
- 85024A** High frequency probe (300 kHz to 3 GHz)
- 11945A** Close-field probes (with Option E51)
- 11742A** High frequency blocking capacitor (3.5 mm (f to m), 45 MHz to 26.5 GHz, 0.35 dB IL < 12.4 GHz, 0.7 dB IL < 26.5 GHz)
- 5062-4841** Rack mount without handles (centers instrument in rack)⁴
- 5062-4840** Rack mount with handles (centers instrument in rack)⁴
- 5062-8241** Rack mount without handles (mounts instrument left of center)⁴
- 5062-8240** Rack mount with handles (mounts instrument left of center)⁴
- 1494-0060** Rack slide for rack mount
- 1420-0383** Memory card battery (CR 2016)
- 9211-5604** Transit case
- 08562-60021** Service accessory kit
- 1540-1130** Protective soft carrying case/backpack (same as Option 586x-042)
- 8120-6164** 50 GHz cable: 1 meter, 2.4 mm (f), and 2.4 mm (m) connectors
- 11693A** Limiter: type-N (f) to type-N (m), 0.1 GHz to 12.4 GHz, < 2 dB insertion loss
- 82357A** USB/GPIB interface

Agilent 8560 EC-series manuals

08560-90112 8560 EC-Series quick reference guide in English

5961-0435 8560 EC-Series quick reference guide in French⁸

5961-0436 8560 EC-Series quick reference guide in German⁸

5961-0437 8560 EC-Series quick reference guide in Italian⁸

5961-0438 8560 EC-Series quick reference guide in Spanish⁸

5961-6800 8560 EC-Series quick reference guide in Chinese⁸

08560-90110 8560 EC-Series user's guide in English

5961-6793 8560 EC-Series user's guide in French⁸

5961-6794 8560 EC-Series user's guide in German⁸

5961-6795 8560 EC-Series user's guide in Italian⁸

5961-6796 8560 EC-Series user's guide in Spanish⁸

08560-90117 8560 EC-Series user's guide in Japanese⁸

5960-6550 8560 EC-Series component level information manual⁸

08560-90132 8560 EC-Series calibration guide

08560-90111 8560EC service guide

08563-90131 8561EC/63EC service guide

08562-90209 8562EC service guide

08564-90014 8564EC/65EC service guide

85620-90041 85620A installation, operation, programming and service manual

For user's training contact your local Agilent representative.

Notes

- Options 856x-002 (discontinued option) and 856x-005 are mutually exclusive.
- 85620A required. 85620A includes one 32-Kbyte RAM card.
- Not compatible with Option 856x-002 (discontinued option) on the 8560EC.
- Rack height is 8.75 inches.
- Option 856x-008 on Agilent 8560 EC-Series recommended.
- Option 856x-005 on Agilent 8560 EC-Series recommended.
- Not all agency masks can be used with Agilent 8560EC and Agilent 8561EC.
- Not available for the 8562EC.
- Option not available in all countries.
- Standard on the 856xEC series; may be purchased as an upgrade for older 856x spectrum analyzers.
- Option 856x-008 and 856x-103 (discontinued option) are mutually exclusive.



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