



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 (previously, Option 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 analyzer¹
(30 Hz to 2.9 GHz)

Agilent 8561EC RF spectrum analyzer²
(30 Hz to 6.5 GHz)

Agilent 8562EC RF spectrum analyzer¹
(30 Hz to 13.2 GHz)

Agilent 8563EC microwave spectrum analyzer¹
(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)

1. To be discontinued September 1, 2009

2. Discontinued product.



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Agilent 8560 EC-Series options

• = compatible options Std = standard configuration

Option	Description	8560EC	8561EC	8562EC	8563EC	8564EC	8565EC
Frequency range							
856xEC-006	Frequency coverage down to 30 Hz	Std	Std	Std	•	•	•
Signal identification							
856xEC-008	Adds signal identification	•	•	•	•	•	•
Frequency reference							
856xEC-103	Delete precision frequency reference (discontinued option)	•	•	•	•	•	•
Memory module							
856xEC-104	Delete 85620A mass memory module	•	•	•	•	•	•
Inputs and outputs							
856xEC-001	Add second IF output, rear panel connector (310.7 MHz)	•	•	•	•	•	•
856xEC-005	Add alternate sweep output ¹	•	•	•	•	•	•
Input connection							
856xEC-026	APC 3.5 mm input connector				•		
Refurbish unit							
856xEC-RMKT	Refurbished spectrum analyzer (as available)	Contact an Agilent representative for availability					
Calibration documentation							
856xEC-UK6	Commercial calibration certificate with test data	•	•	•	•	•	•
Accessories							
856xEC-908	Rack mount kit without handles	•	•	•	•	•	•
856xEC-909	Rack mount kit with handles	•	•	•	•	•	•
856xEC-042	Gray spectrum analyzer backpack	•	•	•	•	•	•
856xEC-044	Yellow spectrum analyzer backpack	•	•	•	•	•	•
856xEC-B70	BenchLink spectrum analyzer software	•	•	•	•	•	•
Documentation							
856xEC-0B0	Delete manual set	•	•	•	•	•	•
856xEC-AB2	Chinese localization (user's guide and quick reference guide)	•	•	•	•	•	•
856xEC-ABD	German localization (user's guide and quick reference guide)	•	•	•	•	•	•
856xEC-ABE	Spanish localization (user's guide and quick reference guide)	•	•	•	•	•	•
856xEC-ABF	French localization (user's guide and quick reference guide)	•	•	•	•	•	•
856xEC-ABJ	Japanese localization (user's guide and quick reference guide)	•	•	•	•	•	•
856xEC-ABZ	Italian localization (user's guide and quick reference guide)	•	•	•	•	•	•
Additional documentation							
856xEC-915	Service guide (and component level information manual)	•	•	•	•	•	•
856xEC-910	Extra user's manual set (user's guide, calibration guide, mass memory module, manual, and quick reference guide)	•	•	•	•	•	•
856xEC-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 (discontinued)	.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 Ω minimum loss pad
86205A	50 Ω 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 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/

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 card ² (discontinued)
85702A	128-Kbyte RAM memory card ² (discontinued)
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 856x-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
82357B	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 French ⁸
5961-0436	8560 EC-Series quick reference guide in German ⁸
5961-0437	8560 EC-Series quick reference guide in Italian ⁸
5961-0438	8560 EC-Series quick reference guide in Spanish ⁸
5961-6800	8560 EC-Series quick reference guide in Chinese ⁸
08560-90110	8560 EC-Series user's guide in English
5961-6793	8560 EC-Series user's guide in French ⁸
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08560-90117	8560 EC-Series user's guide in Japanese ⁸
5960-6550	8560 EC-Series component level information manual ⁸
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.



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