<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
<th>Opt card slots required (4 max)</th>
<th>8591C</th>
<th>8591E</th>
<th>8593E</th>
<th>8594E</th>
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<tr>
<td>001</td>
<td>75 Ω input impedance</td>
<td>0</td>
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<td>003</td>
<td>Memory card reader</td>
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<td>Std</td>
<td>Std</td>
<td>Std</td>
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<td>004</td>
<td>Precision frequency reference</td>
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<td>Std</td>
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<td>Local oscillator and sweep + tune outputs (rear panel)</td>
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<tr>
<td>010</td>
<td>Built-in tracking generator, 50 Ω (100 kHz–1.8 GHz)</td>
<td>0</td>
<td>✓</td>
<td>✓</td>
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<td>012</td>
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<td>026</td>
<td>Frequency extension to 26.5 GHz (APC 3.5 mm connector)</td>
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<td>Frequency extension to 26.5 GHz (type-N connector)</td>
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<td>Adds 85921B Cable TV Data Management S/W for FCC</td>
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<td>GPIB interface and parallel printer interface</td>
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<td>050</td>
<td>Improved amplitude accuracy for NADC-TDMA/PCS bands</td>
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<td>Improved amplitude accuracy for PDC bands</td>
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<tr>
<td>052</td>
<td>Improved amplitude accuracy for PHS band</td>
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<td>053</td>
<td>Improved amplitude accuracy for CDMA/PCS bands</td>
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<td>Adds 85878A report generation software</td>
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<td>080</td>
<td>Delete manual set</td>
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<td>101</td>
<td>Fast time-domain sweeps and Analog + display</td>
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<tr>
<td>102</td>
<td>AM/FM demod. with speaker and TV sync. trigger</td>
<td>1</td>
<td>Std</td>
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<td>103</td>
<td>Quasi-peak detector and AM/FM demod with speaker</td>
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<td>Time-gated spectrum analysis</td>
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<td>TV receiver video tester</td>
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<td>111</td>
<td>Group delay w/compatible tracking generator</td>
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<td>119</td>
<td>Noise figure</td>
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<td>130</td>
<td>Narrow resolution bandwidths (30 Hz, 100 Hz, 300 Hz and 200 Hz EMI)</td>
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<td>✓</td>
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<td>140</td>
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<tr>
<td>151</td>
<td>DSP, fast ADC, and digital demodulator</td>
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<td>160</td>
<td>PDC, PHS, NADC, and CDMA firmware for Option 151</td>
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### Agilent 8590C/E series options (continued)

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
<th>Opt card slots required (4 max)</th>
<th>8591C</th>
<th>8591E</th>
<th>8593E</th>
<th>8594E</th>
<th>8595E</th>
<th>8596E</th>
<th>✔️ = compatible</th>
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<tr>
<td>163</td>
<td>GSM900/DCS1800 firmware for Option 15125</td>
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<tr>
<td>180</td>
<td>TV picture on screen (NTSC, PAL, and SECAM)</td>
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<td>✔️</td>
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<td>190</td>
<td>DVB-C RF and modulation quality measurements</td>
<td>3</td>
<td>✔️</td>
<td>✔️</td>
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<td>195</td>
<td>R-S and true BER and PID statistics data measurements</td>
<td>1</td>
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<td>✔️</td>
<td>✔️</td>
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<tr>
<td>301</td>
<td>TV sync. trigger capability, fast time domain sweeps, AM/FM demodulator, and Analog + display (Option 101 and 102)</td>
<td>2</td>
<td>Std</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
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<td>✔️</td>
<td>✔️</td>
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<tr>
<td>701</td>
<td>Delete TV sync. trigger capability, fast time domain sweeps, AM/FM demodulator and Analog + display (Options 101 and 102)</td>
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<td>703</td>
<td>Delete quasi-peak detector and AM/FM demodulator</td>
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<td>711</td>
<td>50/75 Ohm matching pad with 100V DC block</td>
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<tr>
<td>908</td>
<td>Rack mount kit without handles</td>
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<tr>
<td>909</td>
<td>Rack mount kit with handles</td>
<td>0</td>
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<tr>
<td>910</td>
<td>Additional user’s guide, calibration guide, and quick reference guide</td>
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### Warranty and service

<table>
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<th>Option</th>
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<tbody>
<tr>
<td>R-51B</td>
<td>Return-to-Agilent warranty and service plan</td>
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<tr>
<td>R-50C-001</td>
<td>Standard calibration</td>
<td>✔️</td>
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<tr>
<td>R-50C-002</td>
<td>Standards-compliant calibration</td>
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<td>B70</td>
<td>BenchLink spectrum analyzer</td>
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### Memory cards

<table>
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<tr>
<td>85700A</td>
<td>32 Kbyte blank memory card (RAM)</td>
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<tr>
<td>85702A</td>
<td>128 Kbyte blank memory card (RAM)</td>
<td>✔️</td>
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<tr>
<td>85704A</td>
<td>256 Kbyte blank memory card (RAM)</td>
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<td>85705A</td>
<td>512 Kbyte blank memory card (RAM)</td>
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### PC software

<table>
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<th>Option</th>
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<tbody>
<tr>
<td>85921B</td>
<td>Cable TV data management software for FCC</td>
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</tr>
<tr>
<td>E4444A</td>
<td>BenchLink spectrum analyzer</td>
<td>✔️</td>
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</tbody>
</table>
Agilent 8590C/E series options

Ordering information
8590E series spectrum analyzers
- 8591E 9 kHz to 1.8 GHz
- 8593E 9 kHz to 2.2 GHz
- 8594E 9 kHz to 2.9 GHz
- 8595E 9 kHz to 6.5 GHz
- 8596E 9 kHz to 12.8 GHz

8591C cable TV analyzer
- 8591C 9 kHz to 1.8 GHz

Options
To add options to a product, use the following ordering scheme:
Model: 859xx
(xx = 1E, 3E, 4E, 5E, 6E or 1C)
Model options: 859xx-Option 1

Retrofit kits
(For option installation after analyzer purchase)
To order retrofit kits, use part number listed below:
Model: 8590E (0 = 1, 3, 4, 5 or 6)

8590E hardware retrofit kits
- 5062-6458 Retrofit kit for fast time domain sweeps
- 5062-6457 Retrofit kit for TV trigger and AM/FM demod
- 5062-6456 Retrofit kit for memory card reader
- 5062-6459 Retrofit kit for precision frequency reference
- 5063-0244 Retrofit kit for CT2 demodulator card
- 5063-0651 Retrofit kit for TV receiver/video tester for 8590E models, prefix greater than 3303A
- 5063-0652 Retrofit kit for TV receiver/video tester for 8590E models, prefix less than 3303A
- 5063-0653 Retrofit kit for TV receiver/video tester for 8591C model only
- 5063-0649 R07/R17 Rebuild kit for TV receiver/video tester for 8591C model only
- 5062-6463 Retrofit kit for 50 Ω tracking generator, 8590B/D/L models only
- 5062-6460 Retrofit kit for 50 Ω tracking generator, 8591A/8591E models only
- 5062-6479 Retrofit kit for 75 Ω tracking generator, 8590B/D/L models only
- 5062-6480 Retrofit kit for 75 Ω tracking generator, 8591A/C/E models only
- 5063-0654 Retrofit kit for counterlock board for 8590D/L models only
- 5062-8218 Retrofit kit for time-gated spectrum analysis for 8590A/E models
- 5063-0247 Retrofit kit for noise figure card for 8590E models
- 5063-0656 Retrofit kit for GPIB interface, all models < serial prefix 3523A
- 5062-6455 Retrofit kit for RS-232 interface, all models < serial prefix 3523A
- 80590-60349 Retrofit kit for Parallel interface, 8590E models < serial prefix 3523A
- 08590-60380 Retrofit kit for GPIB/Parallel interface, 8590L/C/E models, ser. prefix ≥ 3523A

8590E DLP retrofit kits
- 11778-80023" Link measurement personality
- 05630-00008 50-ohm scalar transmission/reflection test set
- 85713-10004 Digital radio measurement personality
- 85714-10006 Scalard measurement personality
- 85718-10010 NADC/PCS TDMA measurement personality
- 85719-10006 Noise figure measurement personality
- 85720-10011 PDC measurement personality
- 85721-10042 CATV measurement personality - NTSC
- 85721-10043 CATV measurement personality - PAL
- 85721-10044 CATV measurement personality - NTSC - Japan channel plan
- 85721-10045 CATV measurement personality - SECAM-L
- 85721-10047 CATV measurement personality - SECAM-L
- 85722-10011 Noise figure measurement personality
- 85723-90010 DECT measurement personality
- 85724-90009 Broadcast measurement personality
- 85725-10007 CDMA measurement personality
- 85725-10008 CDMA measurement personality - Japanese localization
- 85726-10006 PHS measurement personality
- 85727-90007 GSM multi-band transmitter measurement personality

8591C retrofit kits
- 0591CU-R01 Retrofit kit for fast time domain sweeps
- 0591CU-R02 Retrofit kit for TV trigger and AM/FM demod
- 0591CU-R04 Retrofit kit for precision frequency reference
- 0591CU-R07 Retrofit kit for TV receiver/video tester
- 0591CU-R11 Retrofit kit for 1.8 GHz, 75 Ω tracking generator
- 0591CU-R19 Retrofit kit for noise figure card
- 0591CU-R21 Retrofit kit for GPIB interface
- 0591CU-R23 Retrofit kit for RS-232 interface
- 0591CU-R24 Retrofit kit for parallel printer interface
- 0591CU-R30 Retrofit kit for narrow resolution bandwidths
- 0591CU-R41 Retrofit kit for GPIB and parallel interfaces
- 0591CU-R80 Retrofit kit for TV picture on screen
## Agilent 8590C/E series accessories

### For scalar measurements
- **8563B-00008** Scalar 50 Ω transmission/reflection test set
- **86205A** 50 Ω RF bridge (type-N(f)), 300 kHz to 6 GHz, 1.5 dB +0.1 dB/GHz insertion loss
- **86207A** 75 Ohm RF bridge (type-N(f)), 300 kHz to 3 GHz, 1.5 dB +0.1 dB/GHz insertion loss

### For EMC measurements
- **11945A** Close field probe set (9 kHz to 1 GHz) (with Option E51)
- **11947A** Transient limiter (BNC(f) to type-N(m), 9 kHz to 200 MHz, 10 dB insertion loss)

### Printers and accessories
Most Hewlett-Packard DeskJet and LaserJet (PCL 3 compatible) printers are compatible with 8590 series spectrum analyzers. Printer compatibility chart is on the internet web site at www.agilent.com/find/pcg/

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10833A</td>
<td>GPIB cable (1 meter)</td>
</tr>
<tr>
<td>24542U</td>
<td>RS-232 cable 3 meter (9 pin F to 9 pin F) Option 043 only (for RS-232 9 pin PC connection to analyzer)</td>
</tr>
<tr>
<td>24542G</td>
<td>RS-232 cable 3 meter (25 pin M to 9 pin F) Option 043 only (for RS-232 25 pin PC or printer connection to analyzer)</td>
</tr>
<tr>
<td>24542M</td>
<td>RS-232 cable 3 meter (25 pin M to 9 pin F) Option 043 only (for RS-232 25 pin modem connection to analyzer)</td>
</tr>
<tr>
<td>C2932A</td>
<td>RS-232 cable 3 meter (9 pin M to 9 pin F) Option 043 only (for serial 9 pin LaserJet 4P/4Plus connection to analyzer)</td>
</tr>
<tr>
<td>13242G</td>
<td>RS-232 cable 5 meter (for Option 023 only)</td>
</tr>
<tr>
<td>C2950A</td>
<td>Parallel printer cable (2 meter)</td>
</tr>
<tr>
<td>ITEL-45CHVUB</td>
<td>GPIB/Parallel converter (North America, Japan, Korea, and Taiwan)</td>
</tr>
<tr>
<td>ITEL-45CHVEB</td>
<td>GPIB/Parallel converter (Continental Europe, U.K., Australia, and South Africa) (requires F1011A AC adapter)</td>
</tr>
</tbody>
</table>

### Amplifiers and preamplifiers
- **8447D** Preamplifier (100 kHz to 1.3 GHz, > 25 dB gain)
- **8449B** Preamplifier (1 GHz to 2.56 GHz, 30 dB gain)
- **10855A** Broadband preamplifier (2 MHz to 1300 MHz, 22 dB gain)
- **85905A** 75 Ω preamplifier (45 MHz to 1GHz, 20 dB gain)
- **87405A** Amplifier (10 MHz to 3 GHz, 22 dB gain)
- **87415A** Amplifier (2 GHz to 8 GHz, 25 dB gain)

### Other accessories
- **D4950A** Keyboard
- **346B** Noise source (BNC(f) to APC 3.5(m), 10 MHz to 18 GHz)
- **11693A** Limiter (type-N(f) to type-N(m), 0.1 GHz to 12.4 GHz, < 2.0 dB insertion loss)
- **11694A** 75/50 Ω matching transformer (BNC(f) to BNC(m), 3 MHz-500 MHz, < .75 dB insertion loss)
- **0055-1020** 50 to 75 Ω adapter. Same as Option 711
- **11742A** High frequency blocking capacitor (3.5mm(f to m)), 10 MHz to 26.5 GHz, .35 dB IL < 12.4 GHz, .7 dB IL < 26.5 GHz
- **11852B** Order with Option C04, 75/50 Ω min. loss pad (type-N(f) to type-N(m), DC to 2 GHz, 5.7 dB insertion loss)
- **11867A** RF limiter (type-N(f) to type-N(m), DC to 1.8 GHz, < .75 dB insertion loss)
- **11930B** Power limiter (5 MHz to 6 GHz)
- **41800A** Active probe (5 Hz to 500 MHz)
- **85824A** High frequency probe (300 kHz to 3 GHz)
- **85901A** Portable AC power source
- **85902A** Burst carrier trigger
- **1420-8383** Memory card battery (CR 2016)
- **1494-9069** Rack slide for rack mount
- **08590-60369** RS-232/parallel connector assembly to convert Option 041 (GPIB) to Option 043 (RS-232)
- **08590-60368** GPIB/parallel connector assembly to convert Option 043 (RS-232) to Option 041 (GPIB)
- **9211-5604** Transit case
- **5062-4841** Rack mount without handles (centers instrument in rack)
- **5062-4840** Rack mount with handles (centers instrument in rack)
- **5062-8240** Rack mount with handles (mounts instrument left of center)
- **5062-8241** Rack mount without handles (mounts instrument left of center)
- **5180-9055** CRT viewing hood (sun shield)
- **5063-0654** Frequency accuracy retrofit kit for 8590B and 8590D

### Agilent 8590 C/E/L/Q-series manuals
- **08590-90234** 8580 E/L series user’s guide
- **08590-90243** 8590 E/L series quick reference guide
- **08590-90235** 8590 series programmer’s guide
- **5960-6588** 8590 E/L series quick reference guide in French
- **5960-6590** 8590 E/L series quick reference guide in German
- **5960-6592** 8590 E/L series quick reference guide in Italian
- **5960-6594** 8590 E/L series quick reference guide in Spanish
- **5960-6596** 8590 E/L series quick reference guide in Japanese
- **08590-90260** 8590 E/L series user’s guide for Taiwan in Chinese
- **08590-90261** 8590 E/L series user’s guide for China in Chinese
- **5962-5001** 8590 E/L series user’s guide in French
- **5962-5002** 8590 E/L series user’s guide in German
- **08590-90286** 8590 E/L series user’s guide in Italian
- **5962-5004** 8590 E/L series user’s guide in Spanish
- **08590-90269** 8590L calibration guide
- **08594-90183** 858x C/E series calibration guide
- **08592-90082** 8582L calibration guide
- **5963-2950** 8550 C/E/L/Q Series assembly level repair guide
- **5963-2951** 8590 C/E/L/Q Series component level repair guide
- **08591-90129** 8591C Cable TV analyzer user’s guide, spectrum analyzer reference
- **08591-90176** 8591C Cable TV analyzer user’s guide, cable TV measurements
- **08591-90130** 8591C getting started and quick reference guide
Agilent 8590 C/E series notes

1. Programming manual included
2. Options 101 and 102 required for TV sync trigger capability. See Option 301.
3. 85717A measurement personality required
4. 85719A measurement personality required
5. ABF  Quick reference and user’s guides in French
  ABD  Quick reference and user’s guides in German
  ABZ  Quick reference and user’s guides in Italian
  ABE  Quick reference and user’s guides in Spanish
  ABJ  Quick reference guide in Japanese
  ABG  Quick reference guide for Taiwan in Chinese
  AB2  Quick reference guide for China in Chinese
6. An incremental cost will be added to the base price of Options R-51B and R-50C for an 859xC/E containing Options 010, 011, or 130.
7. Option 003 (card reader) on the 8590L, 8592L and 8594L is required.
8. Video tests not supported on 8590L, 8592L or 8594L.
9. Option E51 comes with preamplifier, carrying case, cables and connectors.
10. Cable TV measurements are formatted for local country’s cable TV standards.
11. Modulation accuracy measurements not supported on 8591E.
12. Rack height is 8.75 inches.
13. Not for analyzer operation while in carrying case
14. Options 021, 023 and 024 or 041 and 043 cannot be combined.
15. Not compatible with Option 107
16. Not compatible with other demodulator options (102, 103, 110, 112, or 301).
17. Compatibility with 8591E limited to CDMA applications only
18. If Options 009 and 010 are combined on the 8593E/95E/96E or 8590 EM series; only one option card slot is required.
19. Not compatible with Options 101 and 301
20. Requires Option 111. Not compatible with 8591E.
21. NTSC Cable TV analyzers only
22. Option 107 is not compatible with Option 180.
23. 85721 Cable TV measurement personality required
24. 11770A Link measurements personality required. Do not order Option 010 with Option 111.
25. Option 160 and 163 are not compatible.
26. For warranty and service of 5 years, please order 60 months of R-51B (quantity = 60). Standard warranty is 12 months.
27. For 3 years, order 36 months of the appropriate calibration plan.
   For 5 years, specify 60 months.
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Agilent Technologies aims to maximize the value you receive, while minimizing your risk and problems. We strive to ensure that you get the test and measurement capabilities you paid for and obtain the support you need. Our extensive support resources and services can help you choose the right Agilent products for your applications and apply them successfully. Every instrument and system we sell has a global warranty. Support is available for at least five years beyond the production life of the product. Two concepts underlie Agilent’s overall support policy: “Our Promise” and “Your Advantage.”

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