



Agilent 8590-Series Programming Code Compatibility for ESA-E and ESA-L Series Spectrum Analyzers Option 290

Product Overview



A track record of success

Over the past decade, Agilent 8590-series spectrum analyzers have established themselves as the world's most popular line of spectrum analyzers. Their versatility has made them an excellent fit for a wide variety of applications. One particularly important application area for these instruments is in computer-controlled automated measurements. The 8590s are used around the world in diverse applications such as electronic manufacturing, wireless infrastructure and handset testing, spectrum monitoring, and CATV measurements.

As your customer requirements become more demanding, you may find it advantageous to improve your automatic test capabilities by replacing your 8590-series spectrum analyzer with a higher performance unit. Until now, replacing the spectrum analyzer in your test system meant extensive rewriting, debugging, and validation of your software.

Leverage your software investment

Now there is a better way. Option 290 for Agilent ESA-series spectrum analyzers provides 8590-series programming code compatibility in a premium, mid-performance analyzer package. You can take advantage of the superior speed, amplitude accuracy, and dynamic range offered by the ESA series without having to throw away your existing software. In short, Agilent can dramatically lower your overall switching costs by preserving your software investment.

Using Option 290

You can easily install Option 290 using the integrated floppy disk drive on the front panel of the ESA spectrum analyzer. Once installed, the manual behavior remains unchanged and all ESA front panel soft keys are available. However, over the GPIB or RS-232 interface bus, the ESA acts like an 8590-series spectrum analyzer. Option 290 supports 130 of the most popular 8590-series programming commands and remains installed even if the instrument power is cycled.

Note that after Option 290 is installed, the ESA will no longer respond to its native SCPI commands. Therefore, if you wish to use the ESA with a SCPI-based application program, Option 290 must first be uninstalled. This is easily accomplished with a few keystrokes on the front panel. Option 290 can be uninstalled and reinstalled at any time as needed.

Confidence

Option 290 was developed in the same R&D lab as the original 8590 spectrum analyzer, so you can have confidence that the programming codes will work the way you expect them to.

Ordering information

Option 290 is available on the following models:

ESA-E series spectrum analyzers

E4401B 9 kHz to 1.5 GHz
E4402B 9 kHz to 3.0 GHz
E4404B 9 kHz to 6.7 GHz
E4405B 9 kHz to 13.2 GHz
E4407B 9 kHz to 26.5 GHz

ESA-L series spectrum analyzers

E4411B 9 kHz to 1.5 GHz
E4403B 9 kHz to 3.0 GHz
E4408B 9 kHz to 26.5 GHz

Upgrades for current ESA customers

Current ESA customers can download Option 290 at no charge directly from the ESA web site:

www.agilent.com/find/esa

Alternatively, upgrade kits are available for the following models:

ESA-E series model	Upgrade kit
E4401B	E4401BU option 290
E4402B	E4402BU option 290
E4404B	E4404BU option 290
E4405B	E4405BU option 290
E4407B	E4407BU option 290

ESA-L series model	Upgrade kit
E4411B	E4411BU option 290
E4403B	E4403BU option 290
E4408B	E4408BU option 290

Firmware requirements

To use Option 290, ESA-E and -L spectrum analyzers must have firmware revision A.07.00 or later installed. The latest ESA firmware is available at no charge from the ESA web site:

www.agilent.com/find/esa

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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."

Our Promise

Our Promise means your Agilent test and measurement equipment will meet its advertised performance and functionality. When you are choosing new equipment, we will help you with product information, including realistic performance specifications and practical recommendations from experienced test engineers. When you use Agilent equipment, we can verify that it works properly, help with product operation, and provide basic measurement assistance for the use of specified capabilities, at no extra cost upon request. Many self-help tools are available.

Your Advantage

Your Advantage means that Agilent offers a wide range of additional expert test and measurement services, which you can purchase according to your unique technical and business needs. Solve problems efficiently and gain a competitive edge by contracting with us for calibration, extra-cost upgrades, out-of-warranty repairs, and on-site education and training, as well as design, system integration, project management, and other professional engineering services. Experienced Agilent engineers and technicians worldwide can help you maximize your productivity, optimize the return on investment of your Agilent instruments and systems, and obtain dependable measurement accuracy for the life of those products.

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