

General Information



Helpful Website

The following website contains general information which may be of interest to you:

<http://www.trilithic.com>

Trilithic's website contains product specifications and information, tips, release information, marketing information, Frequently Asked Questions (FAQs), bulletins and other technical information. You can also check this website for product updates.

Where to Get Technical Support

Trilithic technical support is available Monday through Friday from 8:00 AM to 5:00 PM EST. Callers in North America can dial 1-317-895-3600 or 1-800-344-2412 (toll free). International callers should dial 1-317-895-3600 or fax questions to 1-317-895-3613. You can also email technical support at techsupport@trilithic.com.

For quicker support response when calling or sending email, please provide the following information:

- Your name and your company name
- The technical point of contact (name, phone number, email)
- The 8821Q-R serial number, firmware and hardware version numbers
- A detailed description of the problem you are having, including any error or information messages

How this Manual is Organized

Thank you for choosing the 8821Q-R. This manual is provided with the 8821Q-R to help the user become better acquainted with the device and to become productive faster. This manual is divided into the following sections:

- **Section I: The Basics** - Provides Trilithic contact information, describes how this Operation Manual is structured, gives an overview of the 8821Q-R and its basic features. Before using the 8821Q-R, it is recommended that the user read this section for an overview of features, setup, basic commands and other important details. There are also sections on how to calibrate the instrument and perform software & firmware updates.
- **Section II: Spectrum Analyzer Mode** - Provides instructions on how to use the basic features shown available in the spectrum analyzer measurement mode of the 8821Q-R. This section is written as though the user is familiar with the basic operation of the instrument and is broken into chapters for each function.
- **Section III: Advanced Measurement Modes** - Provides instructions on how to use the CATV, DTV, and Tracking Generator measurement modes of the 8821Q-R. This section is written as though the user is familiar with the basic operation of the instrument and is broken into chapters for each function.
- **Section IV: Appendix** - Provides a set of system specifications as well as any information window messages you may receive during normal operation of the 8821Q-R.

Conventions Used in This Manual

This manual has several standard conventions for presenting information.

- Connections, menus, menu options, and user entered text and commands appear in **bold**.
- Section names, web and email addresses appear in *italics*.



Note: A note is information that will be of assistance to you related to the current step or procedure.



CAUTION: A caution alerts you to any condition that could cause a mechanical failure or potential loss of data.



WARNING: A warning alerts you to any condition that could cause personal injury.

Precautions



CAUTION: Use a power cable rated for the correct voltage. However, be sure to use a power cable conforming to safety standards of your nation when using a product overseas.



WARNING: Do not open the instrument's case, there are no user serviceable parts inside.



WARNING: Be sure to plug the power cable into an electrical outlet that has a safety ground terminal. Grounding will be defeated if you use an extension cord that does not include a safety ground terminal.

ESD (Electrostatic Discharge)

Electrostatic discharge can damage or destroy electronic components; therefore, all work on electronic assemblies should be performed at an antistatic workstation. The following suggestions may help to reduce ESD damage that may occur during testing and servicing operations.

- Before connecting any coaxial cable to the instrument, momentarily ground the center and outer conductors of the cable.
- Personnel should be grounded with a resistor-isolated wrist strap before touching the center pin of any connector and before removing any assembly from the unit.
- Be sure that all instruments are properly earth-grounded to prevent a buildup of static charge.