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**AR1100 Firmware Download Utility
User's Guide**

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Preface

NOTICE TO CUSTOMERS

All documentation becomes dated, and this manual is no exception. Microchip tools and documentation are constantly evolving to meet customer needs, so some actual dialogs and/or tool descriptions may differ from those in this document. Please refer to our web site (www.microchip.com) to obtain the latest documentation available.

Documents are identified with a "DS" number. This number is located on the bottom of each page, in front of the page number. The numbering convention for the DS number is "DSXXXXA", where "XXXX" is the document number and "A" is the revision level of the document.

For the most up-to-date information on development tools, see the MPLAB® IDE on-line help. Select the Help menu, and then Topics to open a list of available online help files.

INTRODUCTION

This chapter contains general information that will be useful to know before using the AR1100 Firmware Download Utility. Items discussed in this chapter include:

- Recommended Reading
- The Microchip Web Site
- Customer Support
- Document Revision History

DOCUMENT LAYOUT

This document describes the installation and use of the AR1100 Firmware Download Utility. The Utility is meant to be a quicker and easy to use alternative to the AR Configuration Utility, when all you need to do is perform a firmware download. The manual layout is as follows:

- **Chapter 1. Installation and Setup**
- **Chapter 2. Running the Utility**

RECOMMENDED READING

This user's guide describes how to use the AR1100 Firmware Download Utility. Other useful documents are listed below. The following Microchip documents are available and recommended as supplemental reference resources.

Readme for AR1100 Firmware Download Utility

For the latest information on using the AR1100 Firmware Download Utility, read the "Readme.txt" file (an ASCII text file) in the main installation directory. The Readme file contains updated information and known issues that may not be included in this user's guide.

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THE MICROCHIP WEB SITE

Microchip provides online support via our web site at www.microchip.com. This web site is used as a means to make files and information easily available to customers. Accessible by using your favorite Internet browser, the web site contains the following information:

- **Product Support** – Data sheets and errata, application notes and sample programs, design resources, user's guides and hardware support documents, latest software releases and archived software
- **General Technical Support** – Frequently Asked Questions (FAQs), technical support requests, online discussion groups, Microchip consultant program member listing
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- Distributor or Representative
- Local Sales Office
- Field Application Engineer (FAE)
- Technical Support

Customers should contact their distributor, representative or field application engineer (FAE) for support. Local sales offices are also available to help customers. A listing of sales offices and locations is included in the back of this document.

Technical support is available through the web site at: <http://support.microchip.com>

DOCUMENT REVISION HISTORY

Revision A (August 2011)

- Initial Release of this Document.



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Chapter 1. Installation and Setup

1.1 INSTALLATION

Install the software by double-clicking on the installation zip file, running Setup.exe and following the on-screen instructions. Both a desktop and program menu item shortcut will be added.

1.2 SETUP

Attach either the USB or serial cable to the AR1100, and then attach the other end of the cable to the PC. If you are using a serial cable, apply 5V to the serial leads.

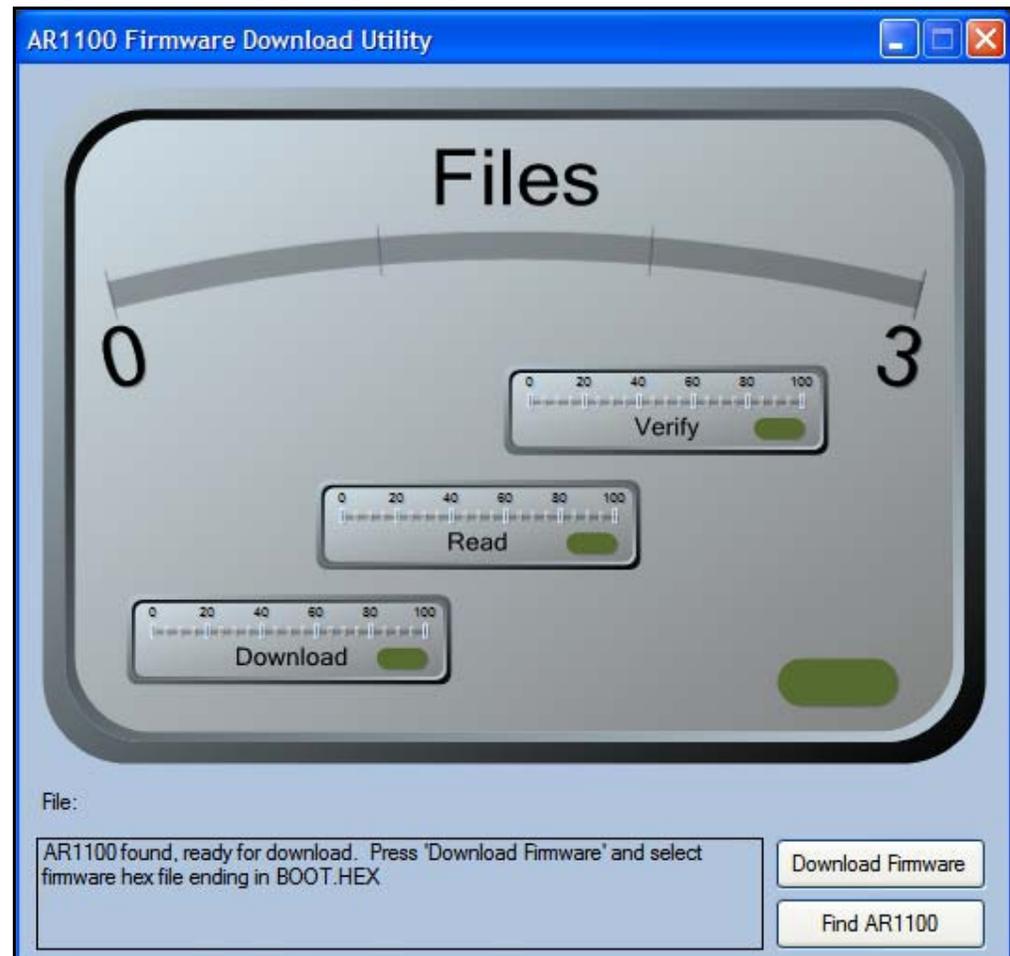
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Chapter 2. Running the Utility

2.1 RUNNING THE UTILITY

Double-click the AR1100 Firmware Download Utility shortcut on the desktop. A single pane GUI will display as shown in Figure 2-1.

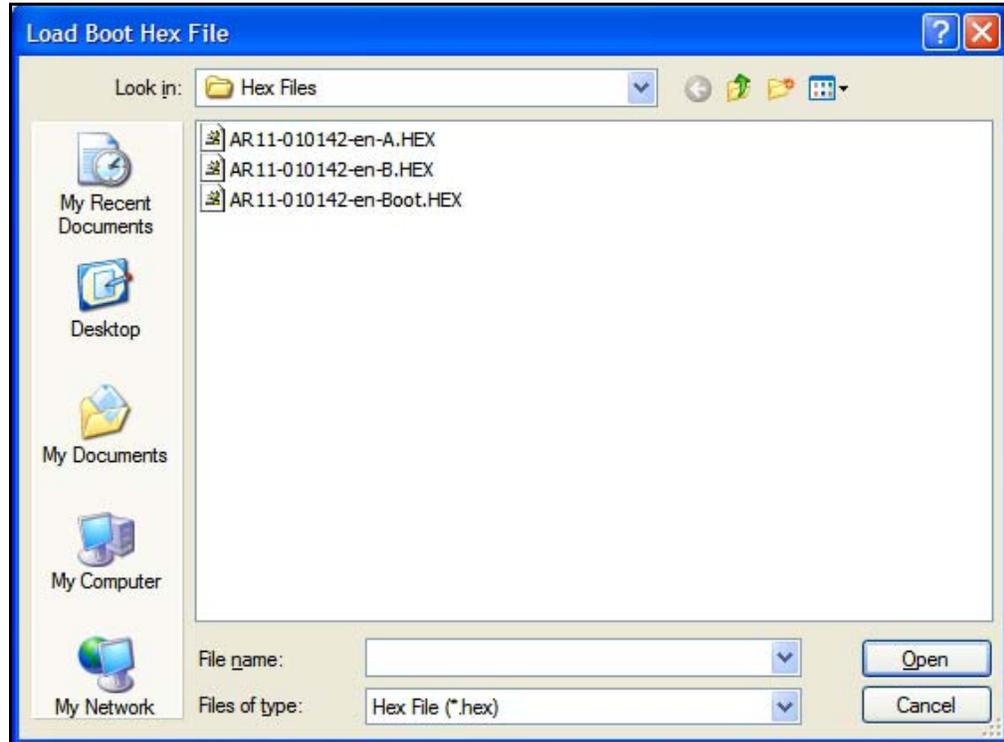
FIGURE 2-1: GUI AT START-UP

The utility will automatically search for the AR1100 upon start-up and the Info box at the bottom of the GUI will display the current status. If the AR1100 is not found, check your connections and press the **Find AR1100** button.

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Once the AR1100 is found, press the **Download Firmware** button. A file selection dialog box will appear. Navigate to the folder that contains the three hex files necessary to complete the download (The working folder has a sub folder called 'Hex Files' that contains the latest firmware at the time of release of this software). The three file names will be of the form XYZ-Boot.hex, XYZ-A.hex, and XYZ-B.hex. Select the file ending in -Boot.hex and press **Open** on the file selection dialog box.

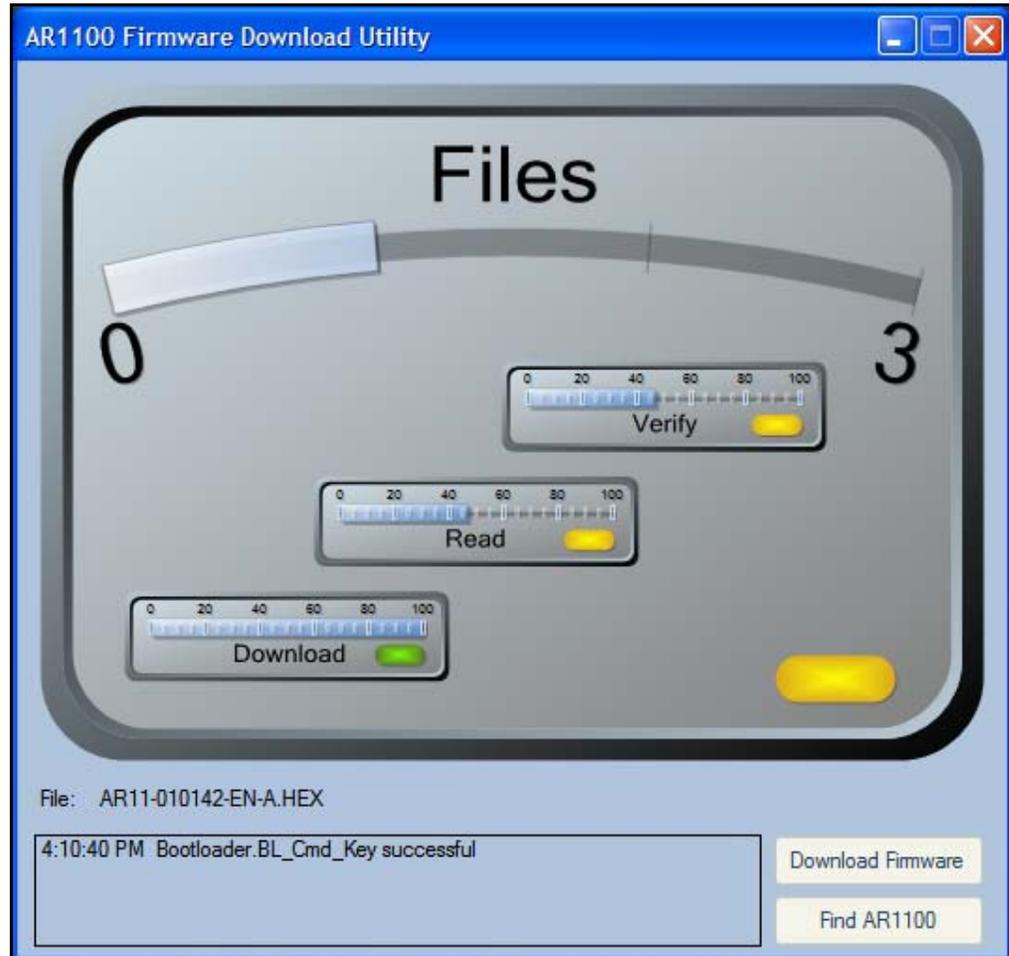
FIGURE 2-2: SELECTING THE HEX FILES



Running the Utility

The download will begin and the gauges on the GUI will display the progress. Download times are less than a minute for USB, and about two minutes for serial.

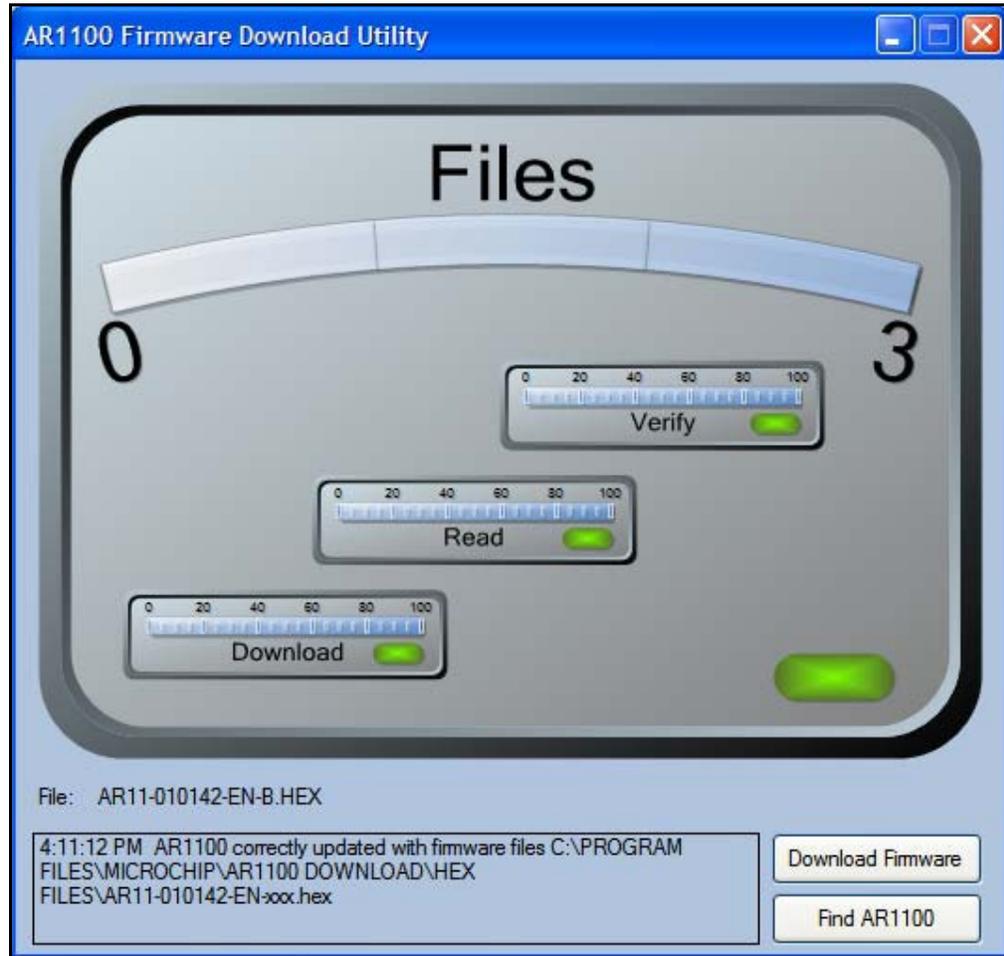
FIGURE 2-3: DOWNLOAD IN PROGRESS



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When the download is complete, all four LEDs will glow green and the gauges will be at their maximum value.

FIGURE 2-4: DOWNLOAD COMPLETE



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