HCS12 Document Methodology

Document Types

The HCS12 Family document set is designed to give the customer the most up-to-date, comprehensive information in an efficient manner. The device documentation is broken down into two types:

- Device Guides — Listed under the data sheet category. These provide device-specific information, such as which modules are incorporated in a device and how those modules interact. There is a document reference table near the beginning of each device guide. It indicates which version of each block guide should be consulted for all modules on chip. Examples of information contained in the device guides are:
    - Module list (reference to applicable block guides)
    - Pin assignments
    - Top-level block diagram
    - Top-level memory map
    - Interrupt vectors
    - Electrical specifications
    - Package mechanical information
- Block Guides — Listed under the reference manual category. These provide detailed module-specific information. They contain:
    - Module register map
    - Module functional description

The document set for each device may be downloaded individually or as a collection contained in a single zip file.

Revision Numbering

Understanding the way the HCS12 Family documents are versioned is vital to understanding organization of the literature. There are two revision levels on each document:

- Major — V**04**.11 (The four in this example is the major revision number.) When a document is changed to reflect a functional change in the way a device operates, from one version of silicon to another or from one version of a module to another, the functional change will be described in a document that increments the major revision number. This major version number is included in the order number of the document, for example S12CRGV4/D, where S12CRGV3/D documents an earlier version of the CRG module still included on some devices. The specification for the CRG module changed between V3 and V4 of the block guide.
- Minor — V04.**11** (The eleven in this example is the minor revision number.) Minor revisions indicate that typos were fixed, or other minor corrections were made to the document. Minor revisions do not indicate a functional change.

On the Web display, the document number will show as S12CRGV4/D, Rev. 11, because V4.11 is the eleventh revision of major version 4 of the document.

When consulting documentation for the HCS12 Family devices, be aware that the date on the cover of the document indicates the date the document was released to publication. The date displayed on the Web is the day the document appeared on the Web. The two dates may not match. The important thing to look at is the major.minor revision number, and not the date. Detailed revision history tables within each of the documents describe what changes were made, and when.

Searching File Collections

The device-specific collections of PDFs contained in the HCS12 zip files can be batch searched for words or phrases. To do this:

1. Download a zip file from the Web site.
2. Select all the files in the zip and extract them to a folder on your hard drive.
3. Go to the Start menu --> Search --> For Files or Folders.
4. In the left-hand panel of the Search window, click Search Options >>.
5. Select Advanced Options and Search Subfolders.
6. Type the word or phrase in the Containing text field and hit the Search Now button.