SEMTECH

WIRELESS AND SENSING PRODUCTS

TN8000.19
Technical Note

XE8000MP and Ride
Software - Firmware update process

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1 INTRODUCTION

This document aims to show the complete update process for the XE8000MP and for the RIDE environment.

It explains the way to update your RIDE version and then the XE8000MP firmware.

2 SOFTWARE IN THE XE8000 PROGRAM/DEBUG FLOW
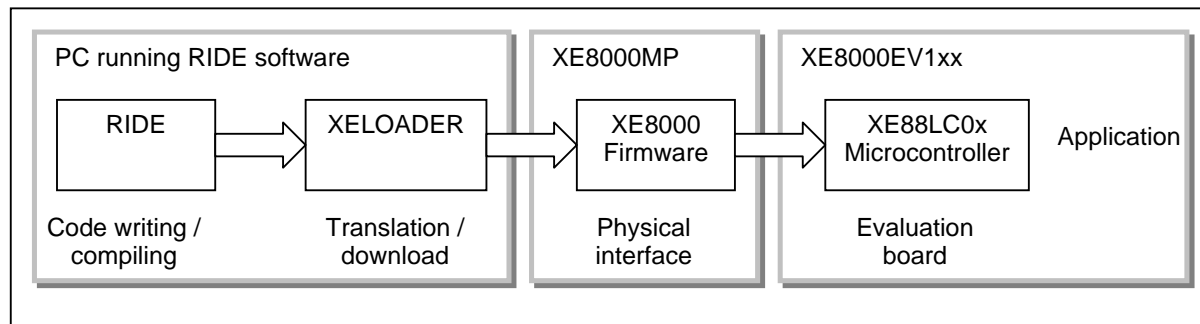
2.1 RIDE

This is the Integrated Development Environment; there are 3 versions of it, RIDE-Lite, Ride-Pro and RIDE-Compressor (also called the Enterprise Suite).

RIDE is constantly evolving through releases; this is certainly the software that will be the most frequently updated.

2.2 XELOADER

This is the interface between RIDE and the XE8000MP; the XELoader is developed and maintained by Semtech, at every release of RIDE the most up to date version of the XELoader is integrated to it.

Note that XELoader can be used independently of RIDE in command line mode.

2.3 XE8000MP FIRMWARE

This is the program that is inside the XE8000MP; it contains the programming algorithms and the service functions of the XE8000MP.

It is possible to have a new version of the firmware without having a new release of RIDE.

The firmware is developed and maintained by Semtech.

WIRELESS AND SENSING PRODUCTS

3   UPDATES

3.1   RIDE VERSIONS

To ensure that your version is the most up to date version compare the version you've installed and the version that is available on the Raisonance website.

3.1.1   To check your version

Launch RIDE, on toolbar click on "help | about" and the version is written in RIDE Environment box (see picture below)
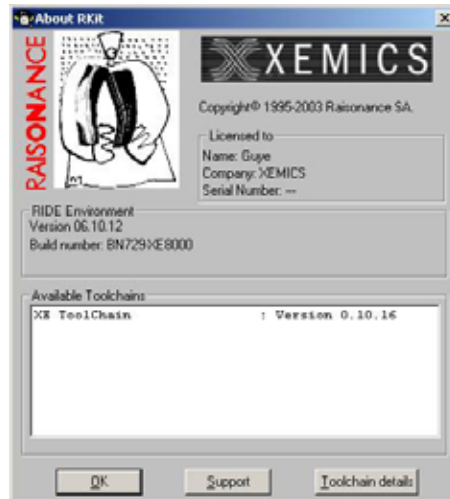
3.1.2   To check the latest version

Use your regular browser to access www.raisonance.com "Download | Customer Access" then you need to fill in the name and the company fields with the information from the "about RIDE" window and the serial number (on the CD box). Then click on submit, a popup window invites you to give the user name and password that you received with the RIDE CD.

Note: If you lose your password contact Raisonance

This gives you access to a table where all the upgrade downloads are available with a list of improvements. Compare your version and the current version, if it's not the same, download the upgrade and follow the installation instructions.

3.1.3   To update to the latest version

Follow Raisonance information on www.raisonance.com "Download | Customer Access" to update your RIDE software (RIDE-Lite, RIDE-Pro or RIDE-Compressor).

3.2 XELOADER VERSION

3.2.1 To check your version

The XELoader version is given for each download (see the RIDE make window). You can also check it in a dos command window launching the following command:

```
C:>xeloader 2 com1 -I

Loader      : V 2.1      <==
Mother Board : V 2.0
Device type  : 2

C:>
```

The line Loader gives you the version of the XELoader.

3.2.2 To check the latest version

The most up to date XELoader can be found on www.semtech.com

3.2.3 To update to the latest version

Once the XELoader.zip file has been downloaded, simply replace the file XELoader.exe in <your RIDE directory>\RIDE\COOLRCTS\WIN32\BIN.

3.3 XE8000MP FIRMWARE VERSIONS

3.3.1 To check your version

The firmware version is given at each download (see in the RIDE make window). You can also check it in a dos command window launching the following command:

```
C:>xeloader 2 com1 -i

Loader      : V 2.1
Mother Board : V 2.0    <==
Device type  : 2

C:>
```

The line Mother Board gives you the version of the XE8000MP firmware.

3.3.2 To check the latest version

To know if the firmware is up to date check on www.semtech.com

This allows you to see if you need to upgrade your firmware, and what the improvements are on each upgrade.

If you need to upgrade the firmware see next page for the procedure.

3.3.3 To update to the latest version

To update the firmware you need a second XE8000MP (Interface XE8000MP) and a connector cable (see picture below)
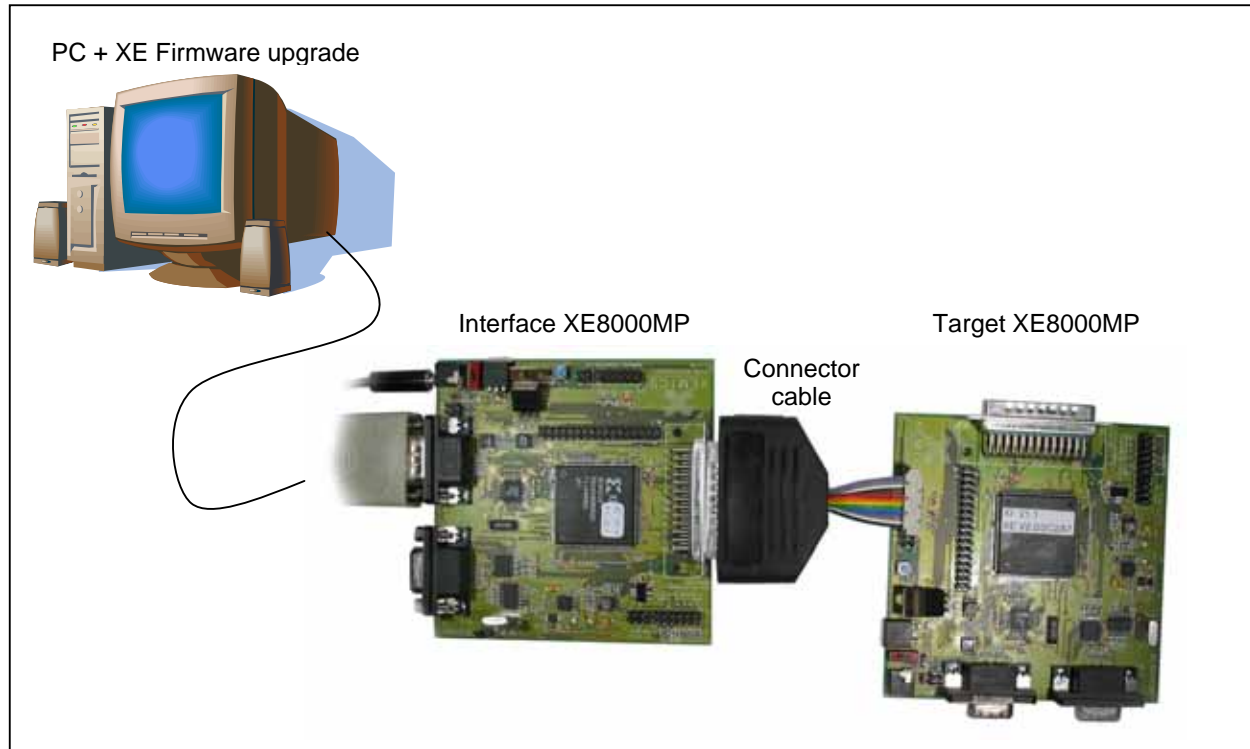
The zip file containing the new firmware also contains all the software necessary to do the upgrade. This means that you don't need to have RIDE installed, the XELoader and all the necessary drivers (.dll) are included in the .zip file. The only thing you'll need to do is to connect the XE8000MP's as shown above, power the Interface XE8000MP, connect it to the COM1 port (default) of the PC and launch the "upgrade.bat" file.

Note that if you need to use another COM port, you must edit the "upgrade.bat" file and change COM1 for the COM port that you will be using.

www.semtech.com

Connector cable schematics:

Interface XE8000MP
25 pins connector

Target XE8000MP
12 pins connector
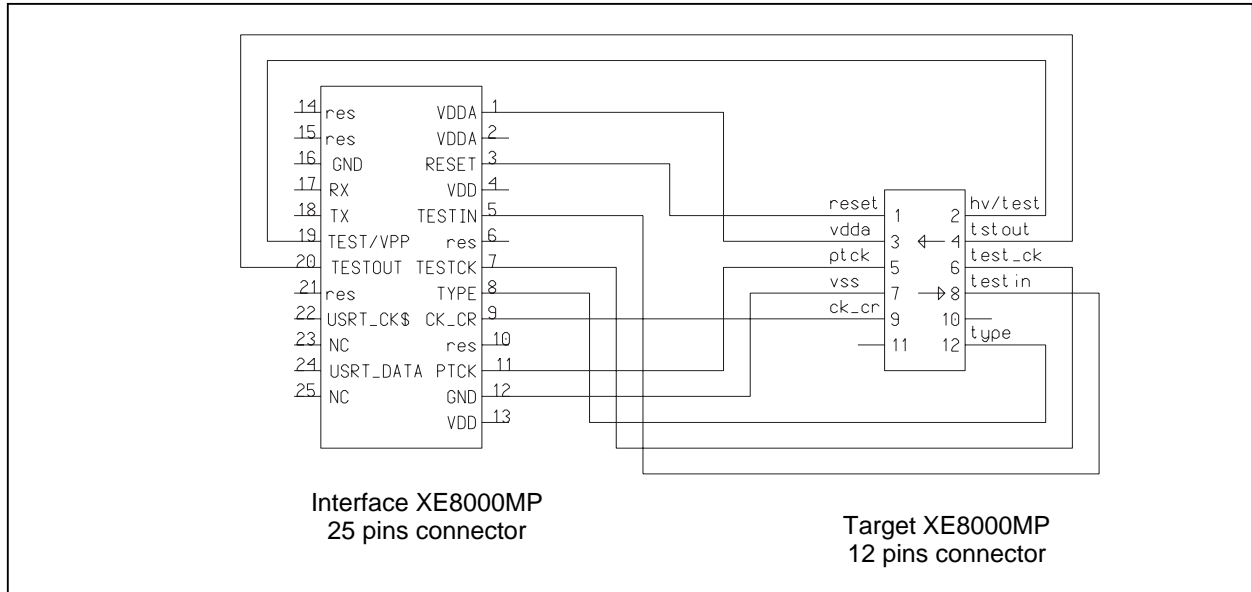
3.3.4   After updating

After updating the firmware, it is useful to place a sticker on the FPGA with the reference of the current version of the firmware. This information is important when calling the technical support.

Contact Information

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