Release Notes

English

Magnus 400 Version 1.01.391.003 Update 2

DRAFT

739-00271A-EN Rev B

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739-00271A-EN Rev B

Revised March 2006

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Overview

These release notes describe the changes and improvements to Magnus™ 400 software version 1.01.391.003 in Update 2.



Important: Update 2 is undergoing field testing.

Update 2 is relevant for the following products:

- Magnus 400
- Magnus 400 Quantum

Prerequisites

- Brisque® version 5.0.61.6 with update 10 (UPD_Brisque_61_FP_10)
- Magnus 400 Controller version 1.01.391.003
- For Xpose devices: Xpo version 1.00.68
- For Quantum devices:
  - Prinergy® version 3.0.2.4
  - Prinergy update 3.5
  - CSxpose 2.00.064

Features

The following features are enhanced in update 2:

- *Distribution Board* on page 2
- *Tweezer Functionality* on page 2
- *Direct RS232 Cable Connection for Smart Edge Detection (SED)* on page 3

Distribution Board

The software supports the new distribution board (part number 503-00334B or higher) that is implemented to resolve communication (retry) problems.

Dlls and parameters were changed to accommodate the modified prom and to eliminate the intermittent, momentary, false signals that caused the recovery messages.

- Dlls changed:
  - **Distribution.dll**
  - **Distribution400BoardDiag.dll**
- Parameters changed (both the parameter value and the default value):
  - **TimeOut For Embedded Communication [mSec]**
    (path—\IO OBJECTS\DISTRIBUTION\Distribution Card)

    This parameter value was reduced from 3000 to **1000**.
  - **Baud Rate**
    (path—\IO OBJECTS\COMMUNICATION PORTS\COM5)

    This parameter value was increased from 19,200 to **57,600**.

Tweezer Functionality

The tweezer functionality is improved.

- Scripts changed:
  - **CPaperDisposalTask.Script**
  - **ConfigLoadingsystem.Script**
- Parameters added:
  - **Y Up After Extra To Catch Paper (mm)**
    (path—\IO OBJECTS\Loading System\Load Plate\Paper Disposal Stage)

Direct RS232 Cable Connection for Smart Edge Detection (SED)



Note: The RS232 cable is relevant for LDA devices only. If your device is a Magnus 400 Quantum platesetter, proceed to the next section.

The RS232 cable must be connected directly to COM 6 to resolve USB-related error messages. Disconnect the USB cable and connect the RS232 cable directly to COM 6 on the PC, as described in the *Installing Update 2* section.

- Dlls changed:
  - **LotemMachine.dll**
  - **PlateEdgeDetection.dll**
  - **Lotem400VMachine.dll**
- Parameters added:
  - **Communicator for SED Card (USB0=0, COM6=1)**
    (For LDA devices only**)**
    (path—\MACHINE)
  - **Com Driver**
    (path—\IO OBJECTS\Plate Edge Detection System\Smart Plate Edge Card)

Limitations

Using COM 6 for edge detection prevents the use of the UDRC LC.

Fixed Problems

- **Tail gripper recovery message**—Illegal gripper width. Tail grippers are not in the required position.

  Script changed:
  LoadPlateFromDrumEntryToDrumTask.Script—changed to increase the range in which the side-to-side detector looks for the tail gripper

- **Interlocks, drum deviation and drum temperature recovery messages**—by modifying a board prom, the communication path between the distribution board and the PC was improved.

- **100% expose stalls** (LDA only)—after expose, the plate does not unload and the expose indicator window does not reach 100%.

  Firmware changed:

  - LMCE firmware 1.02.03

  Dlls changed:

  - **Rcon.dll**
  - **McfCard.dll**
  - **LotemMachine.dll**
  - **Lotem400VMachine.dll**
  - **CtrlMachine.dll**

Installation

The installation procedure for update 2 includes the following steps:

- *Replacing the Distribution Board* on page 5
- *Replacing the USB Cable With the RS232 Cable* on page 8
- *Installing Update 2* on page 9
- *Enabling SED Firmware Upload Through COM I* on page 10
- *Updating the SED Board With Embedded Firmware* on page 10
- *Reconnecting the SED Board to COM 6* on page 16
- *Loading LMCE Firmware* on page 16
- *Testing the Update Installation* on page 17



Note: If your platesetter is a Magnus 400 Quantum, most of the steps mentioned above are not relevant for your platesetter. There are notes throughout the procedure, directing you to proceed to the relevant sections.

Replacing the Distribution Board

1. In Controller, open the rear door of the platesetter.
2. Quit Controller, turn off the platesetter and disconnect the main power.
3. Open the left and right side doors of the platesetter.
4. Remove the back door.
5. Remove the two cross-head screws from the distribution box, and open the distribution box door.



To remove the distribution board:

1. Disconnect all Molex® and cable connections from the distribution board.



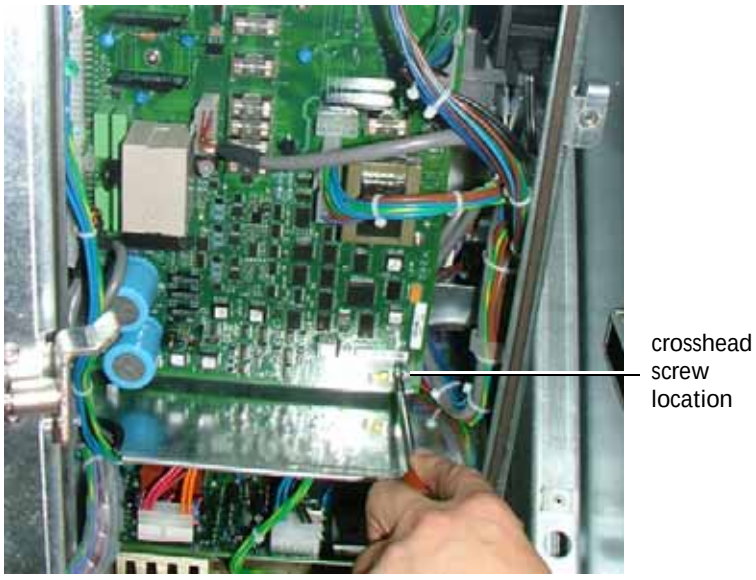
Connections to remove

2. Make sure to disconnect the cables from the side of the board.



Connections to remove

3. Remove the four cross-head screws.



4. Remove the distribution board.

To install the updated distribution board:

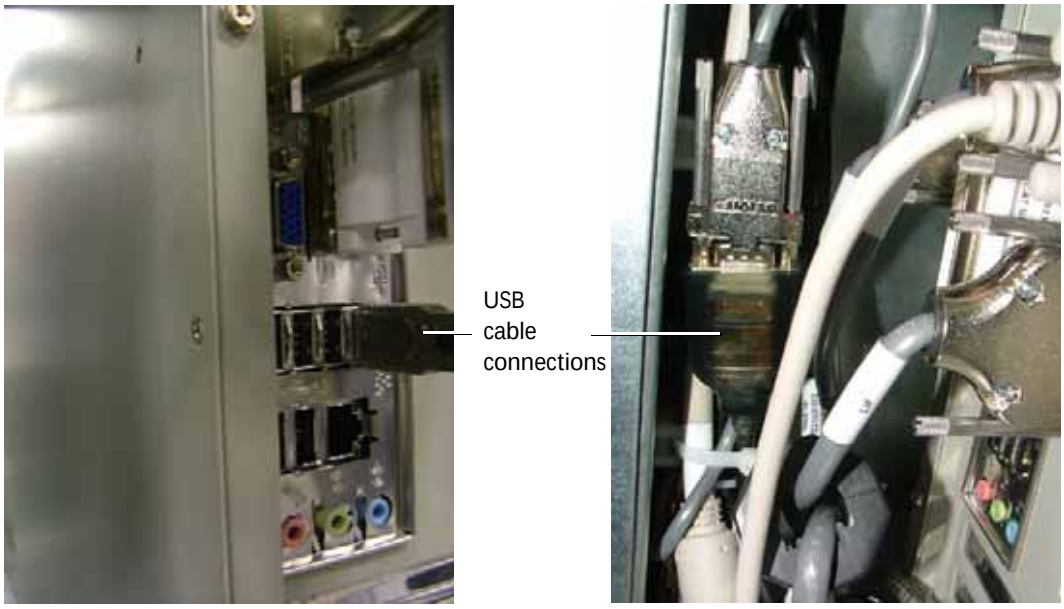
1. Insert distribution board number 503-00334B, and secure it with the four cross-head screws.
2. Connect all cables.
3. Close the distribution box door, and secure it with the two cross-head screws.

Replacing the USB Cable With the RS232 Cable

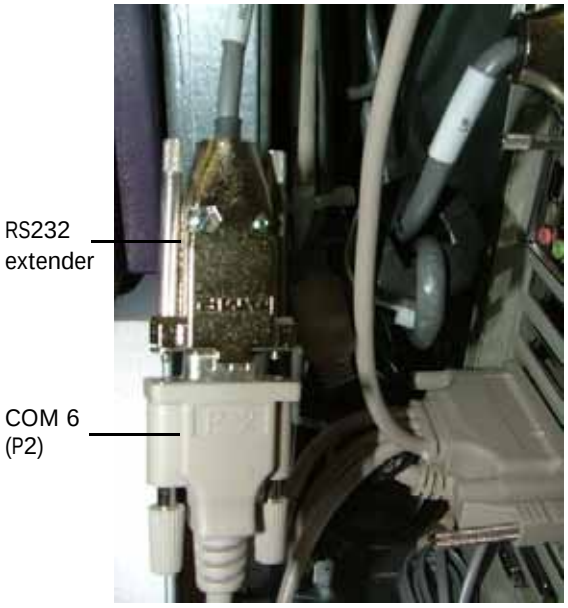
Note: This section is relevant for LDA devices only. If your device is a Magnus 400 Quantum platesetter, proceed to *Installing Update 2* on page 9.

The USB cable is no longer needed. Instead, the RS232 cable connects to COM 6.

1. On the right side of the platesetter, disconnect the USB cable from the USB port, and from the RS232 cable.



2. Connect the RS232 cable to the RS232 extension cable.
3. Connect the RS232 extension cable to the COM 6 (p2) port on the rear panel of the computer.



Installing Update 2

Installing the Update 2 software requires you to perform some hardware changes also. Be sure to observe safety regulations when performing these changes.

Note: If update 1 is installed, you must remove it before you install update 2.

1. Backup the registry and the database.

Note: steps 2-6 are relevant for LDA devices only. If your device is a Magnus 400 Quantum platesetter, proceed to step 7.

2. In the Magnus 400 Controller software, open the top door of the platesetter.
3. Open the left and right side doors of the platesetter, and remove the left and right side panels.
4. Check whether the SED board in your device has a cover. If the SED board does not have a cover, proceed to step 8.

   Note: On early versions of the Magnus 400 platesetter, the SED board is partially covered, and you must remove the cover.

5. Quit Magnus 400 Controller, turn off the platesetter, and disconnect the main power.
6. From the SED board, remove the four crosshead screws and remove the SED board cover. You will not need to reinstall the cover.



7. Connect the main power and turn on the platesetter, but do not start Magnus 400 Controller.

   Note: If you performed a cold start before installing Update 2, when you start the application, error messages related to the distribution board appear. The Magnus 400 Controller version does not recognize the updated distribution board. Before you begin, start the Magnus 400 Controller software, and then quit the application.

8. Insert the Update 2 CD in the platesetter CD-ROM drive.
9. In Explorer, double-click the CD-ROM drive.
10. In the Welcome dialog box, click **Next**.
11. Follow the Update 2 installation wizard, and then click **Finish**.
12. Restart the computer, as follows:
    - **LDA head**: Do not load the Magnus 400 Controller application. Load only Windows®.
    - **Quantum**: Load Windows and Magnus 400 Controller, and then proceed to *Testing the Update Installation* on page 17.

Enabling SED Firmware Upload Through COM I

Note: This section is relevant for LDA devices only. If your device is a Magnus 400 Quantum platesetter, proceed to *Testing the Update Installation* on page 17.

The Smart Edge Detection Embedded firmware uploads through COM I, so you must temporarily connect the SED cable to COM I.

1. On the right side of the platesetter, disconnect the COM I cable from the COM I port (located under the mouse and keyboard ports).
2. Disconnect the RS232 cable from the COM 6 port.
3. Connect the RS232 cable to the COM I port.

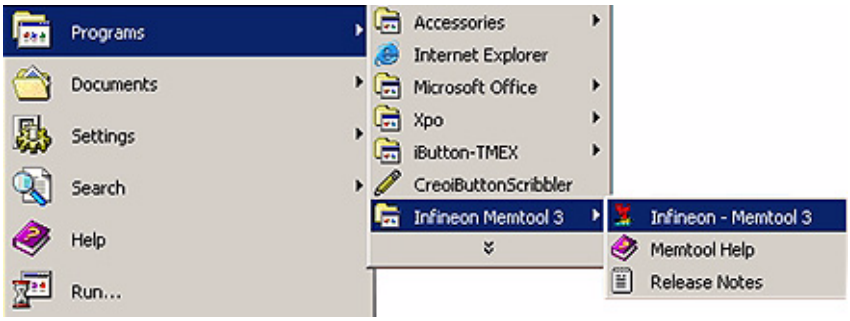
Updating the SED Board With Embedded Firmware

To upload the smart edge detection embedded program:

1. In Explorer, in the CD-ROM drive (F:\) select the **Smart ED** folder, and double-click **Infineon_memtool_3_4_0.exe**.
2. In the Memtool installation wizard, click **Next** twice, and then click **Finish**.

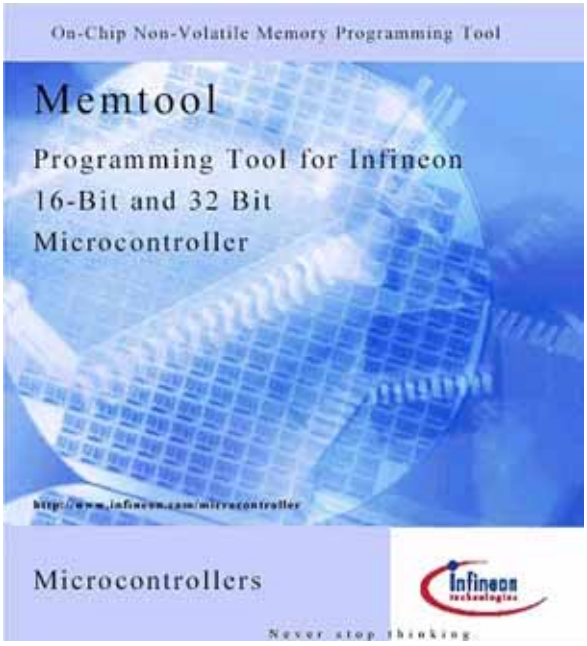
To select the target folder for the embedded files:

1. Select **Start > Programs > Infineon Memtool 3 > Infineon - Memtool 3**.

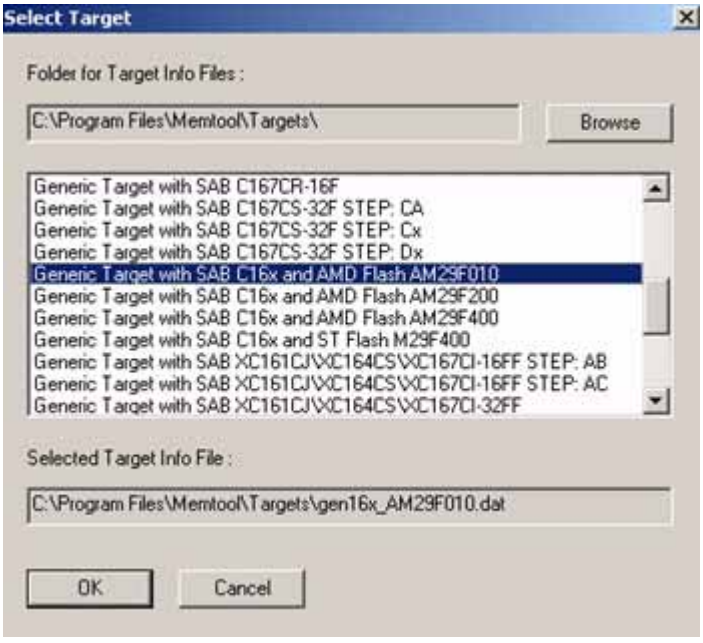


Note: If at any stage the required results do not appear, continue the process from where you left off.

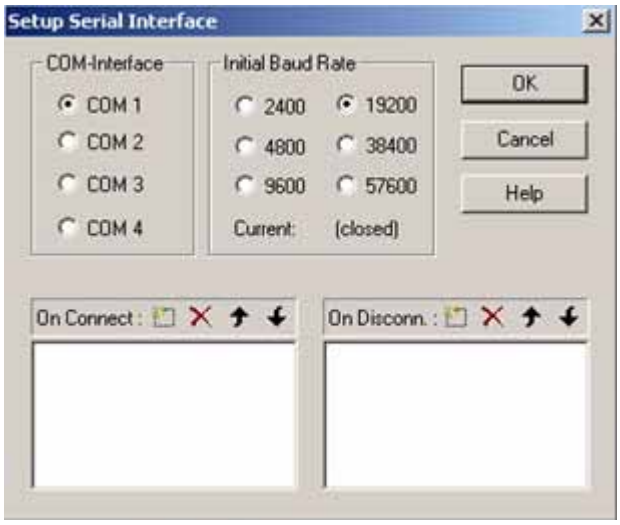
2. Click inside the Memtool window.



3. In the Select Target dialog box, select ...**AM29F010** and click **OK**.



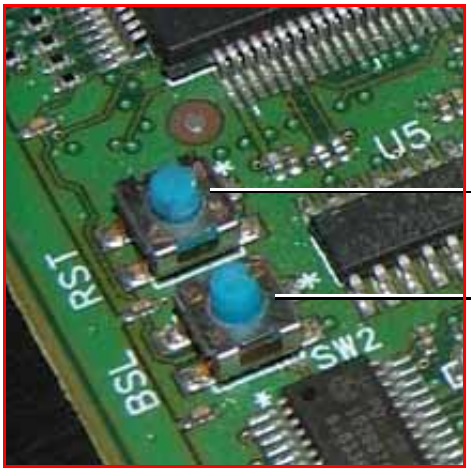
4. In the Setup Serial Interface dialog box, do not change anything. Just click **OK**.



Important: Before performing step 5, read through steps 5–7.

5. On the left side of the platesetter, on the open SED board, press the BSL button down and continue to hold it down.

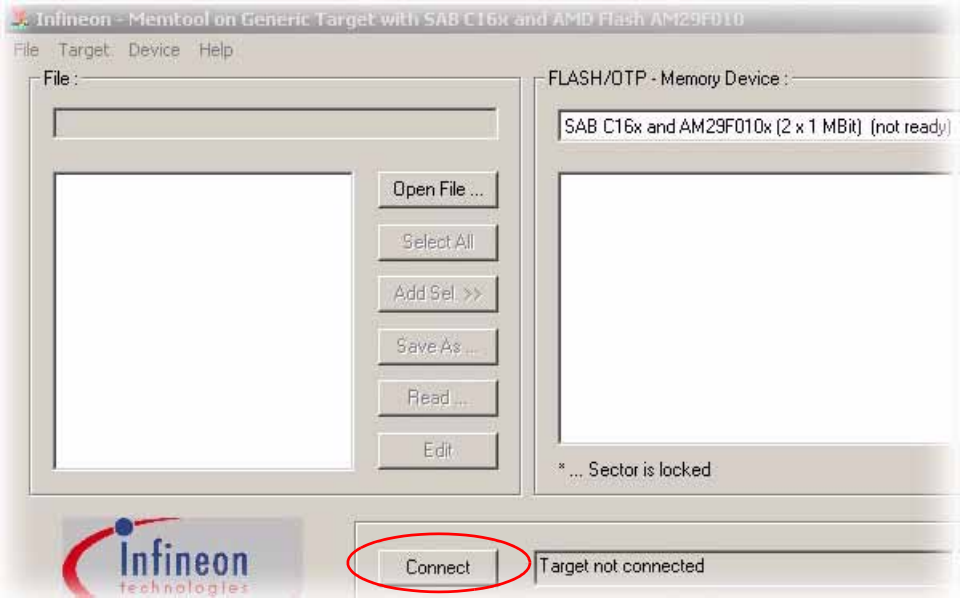




6. While you are pressing the BSL button, press and release the RST button.
7. Release the BSL button. All LEDs should be **ON**.

To import the SED board file:

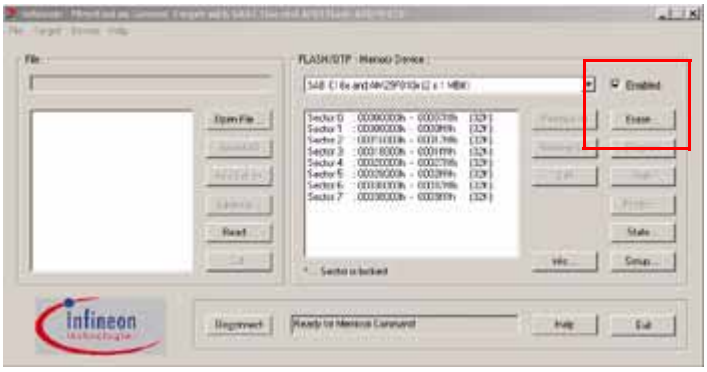
1. On the workstation, in the Infineon dialog box, click **Connect**.

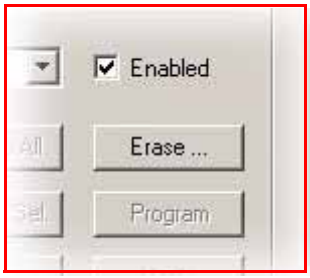


2. To import the file for the SED board, select **Open File**.
3. In the CD drive (F:\), select the **SmartED** folder.
4. In the **SmartEd** folder, select the **edgedet_monitor_20mhz.hex** file and click **Open**.

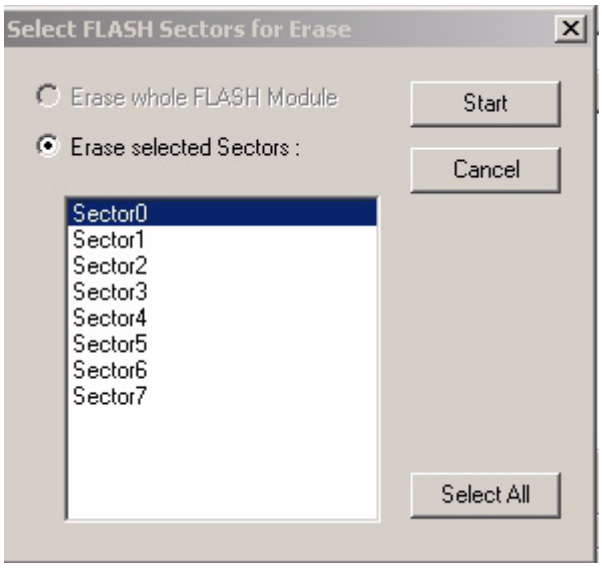
To erase Sector 0

1. In the Infineon dialog box, click **Erase**.

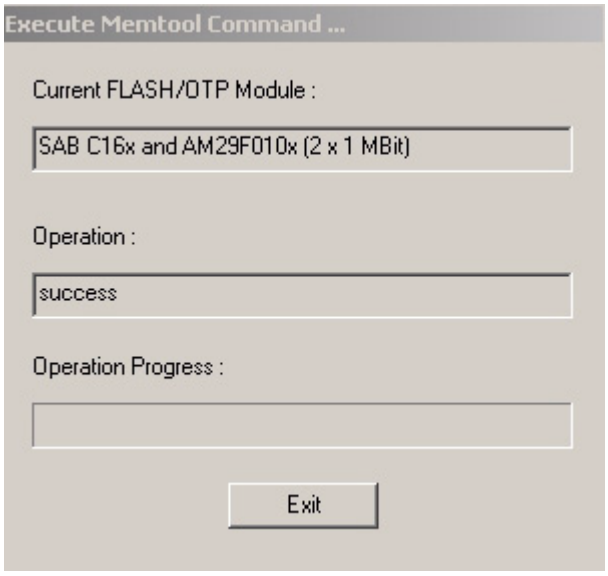




2. In the Select FLASH Sectors for Erase dialog box, from the list, select **Sector0** and click **Start**.

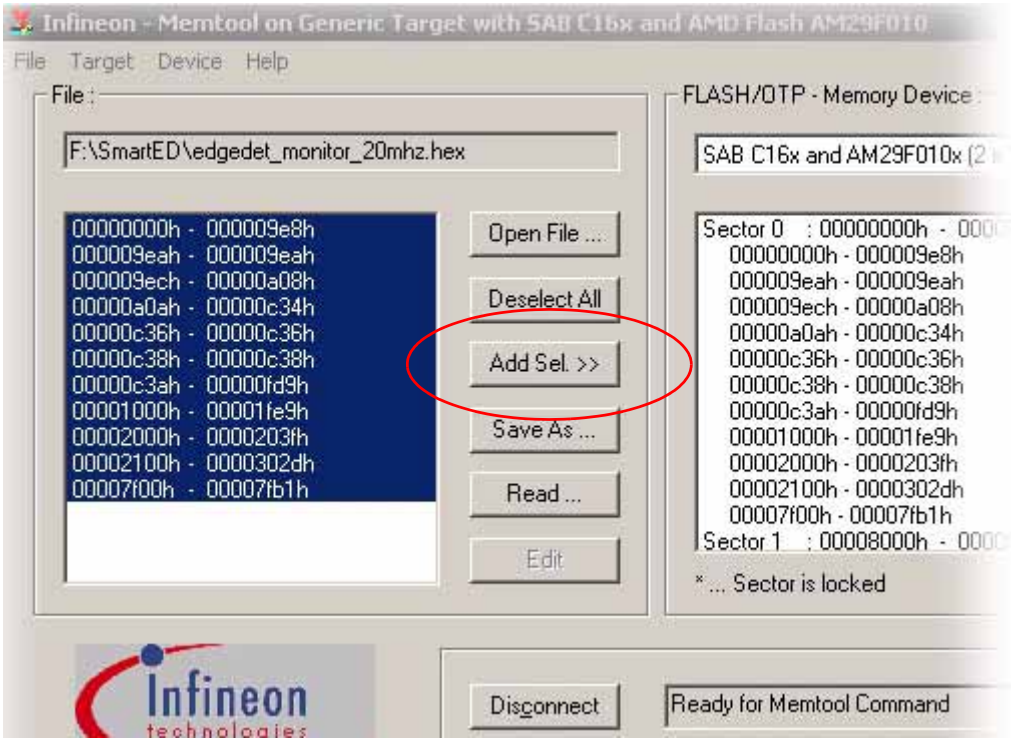


3. In the Execute Memtool Command dialog box, in the **Operation** box, verify that **success** appears, and click **Exit**.

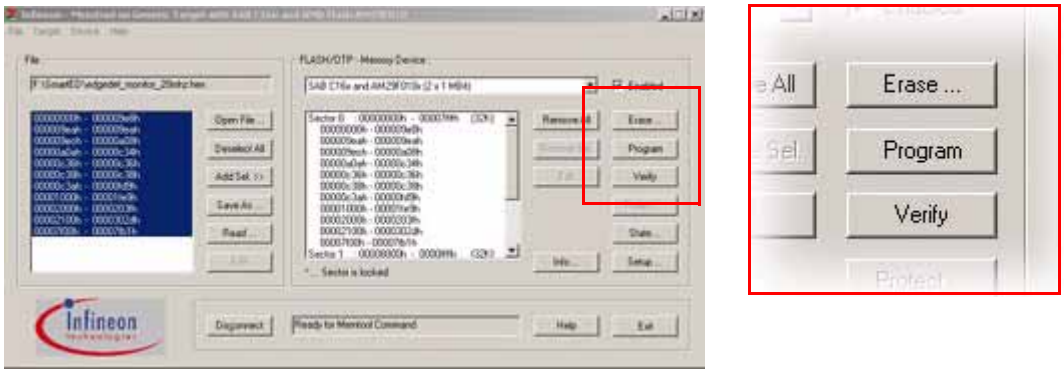


4. In the Infineon dialog box, click the **Select All** button.

5. To add what you selected, click the **Add Sel** button.



6. Click the **Program** button. The program uploads to the SED board.



7. Click **Exit**, and click **Exit** again to leave the Infineon application.

8. On the left side of the platesetter, on the SED board, press **Reset**. Confirm that the red and orange LEDs are off, and that the green LED on the left is flashing.

Reconnecting the SED Board to COM 6

1. On the right side of the platesetter, disconnect the RS232 cable from the COM I port.
2. Connect the COM I cable to the COM I port.
3. Connect the RS232 cable to the RS232 extension cable.
4. Connect the RS232 extension cable to the COM 6 port (labeled P2).
   The following illustration shows the RS232 cable connected to the COM 6 port. The RS232 extension cable is not shown.



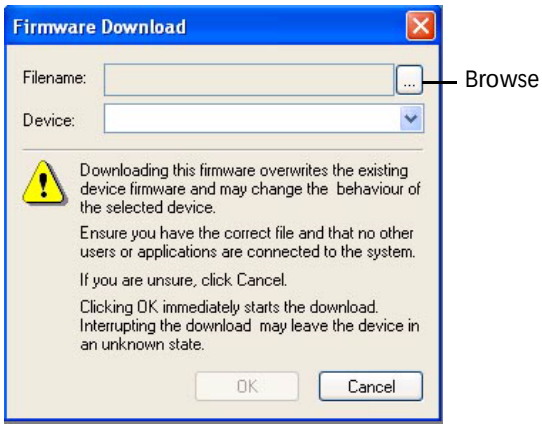
Loading LMCE Firmware

Important: Make sure that your Service Shell version is 2.5. Do not load from Service Shell version 2.6 Service Pack 1.

1. In the Service Shell toolbar, click the **Download Firmware** icon.



2. In the Firmware Download dialog box, click the browse button and locate **C:\Lotem\Lotem400\UploadFile\Lmce.** Select the **Magnus400fmw1.02.03** file and click **OK**.



Testing the Update Installation

1. Select **Utilities > Machine Info** and confirm that **Service Pack 2** appears.
2. Click **OK**.

Note: For LDA devices only, if the LMCE firmware does not load, or if an earlier LMCE version appears, load the LMCE firmware manually via the Bload command, as described in TechPlanet in Loading TMCE Main Firmware.

Note: To reinstall the update, you must be sure to first uninstall it. When uninstalling the update, make sure to select **Magnus Update 1.01.391.003 upd1**.