

GAL Programming Using Xeltek's ROM Master II

December 6, 1999 / Ed Doering

Find a PC that has the Xeltek "ROM Master/2" universal programmer connected.	<ol style="list-style-type: none"> 1. Make sure the unit is connected to the PC parallel port 2. Make sure that power is on 3. Make sure that your GAL is not inserted in the programmer at this time
Open a DOS window	Start → Programs → MS-DOS Prompt
Start the "ROM Master" user interface program	<ol style="list-style-type: none"> 1. cd \rm2\bin 2. rm2
<p>Verify that programmer is configured for the correct device -- look on the "Device" menu on the right hand side of the DOS window. You should see the following: -- manufacturer = LATTICE -- type = GAL20V8A -- select mode = PLD</p> <p>If any of these fields are incorrect, then follow the instructions at right...</p>	<ol style="list-style-type: none"> 1. Device → Select by Device 2. Click "PLD" radio button under "Type" menu on right hand side 3. Select "LATTICE" for manufacturer 4. Select "GAL20V8A" for device 5. Click "Select" when finished.
Load fuse map file created earlier	<ol style="list-style-type: none"> 1. File → Load... 2. Navigate to your ispEXPERT project directory, or type in the fuse map filename (.jed extension) directly
Verify that fuse map file has some information (optional)	<ol style="list-style-type: none"> 1. Buffer → Edit 2. You should see some "1"s scattered among the "0"s. 3. Buffer → Close
Insert the GAL device into the programmer	<ol style="list-style-type: none"> 1. Lift up the lever on the ZIF (zero insertion force) socket. 2. Insert GAL device into programmer socket -- make sure that your device has pin 1 at the <i>top</i> and that the device is <i>bottom-justified</i> in the programmer socket. 3. Lower the ZIF socket lever.
Configure the GAL with the fuse map data	<ol style="list-style-type: none"> 1. Device → Run 2. Select "Program" under "Function Select" menu on left hand side 3. Click "Run" button on bottom left. 4. You should see a variety of confirmation messages appear to signify that your device has been properly configured.
Remove GAL from programmer.	

Web Links

Xeltek (ROM Master II programmer):
 Most recent ROM Master/2 software:

www.xeltek.com
 Go to Xeltek website, select "Download", and select "Rommaster II"