SIEMENS

QUICK REFERENCE GUIDE TO INSTALLING LATTICE ispVM USB DRIVER SOFTWARE ON A COMPUTER

Document Number SIG-QG-09-04
Version B.1

Use the procedures described in this document to upload Lattice Semiconductor Corporation ispVM USB driver software from the supplied CD to a computer hard drive and to transfer the A80418 CPLD software from the CD to the computer hard drive. Perform these procedures in preparation for installing new CPLD software on the Siemens A80418 Track Module.

NOTE

The CD referenced in this procedure (P/N Z224-9V517-A010, ver B) is provided by Siemens in kit number 8K00-8K001-0001 and contains both the Lattice software and the A80418 CPLD file. A special USB cable is also provided in the kit along with these instructions and instructions for installing the CPLD software on the Siemens A80418 Track Module.

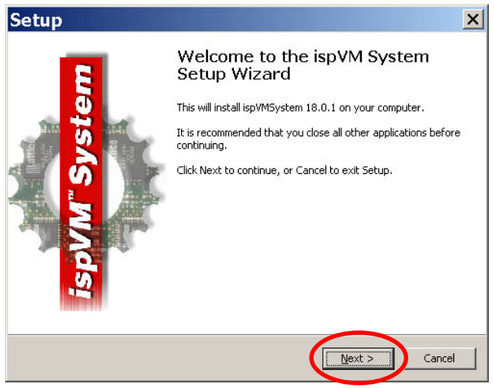
After installing the Lattice USB driver and transferring the CPLD file to the computer hard drive, refer to Quick Reference Guide SIG-QG-09-05, ver. B for instructions on installing the new CPLD software on the A80418 Track Module.

INSTALLING LATTICE ispVM USB DRIVER SOFTWARE ON A COMPUTER HARD DRIVE

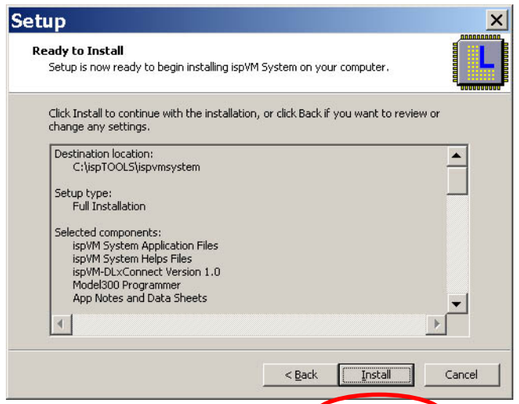
1. Insert the Siemens supplied CD (P/N Z224-9V517-A010, ver. B) in the computer CD drive.

2. Navigate to the CD drive (right click **Start**>select **explore**>select CD drive letter) and double-click on the *ispVM_v18_0_1.exe* file name.

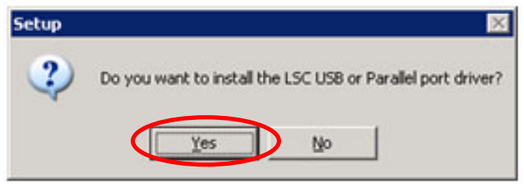
3. When the following screen appears, click **Next >**.



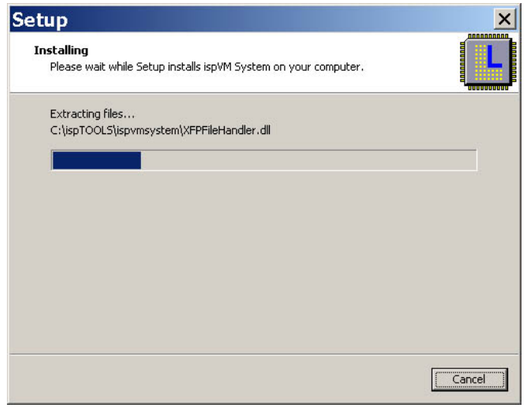
4. When the following screen appears click **Install** to begin the installation process.



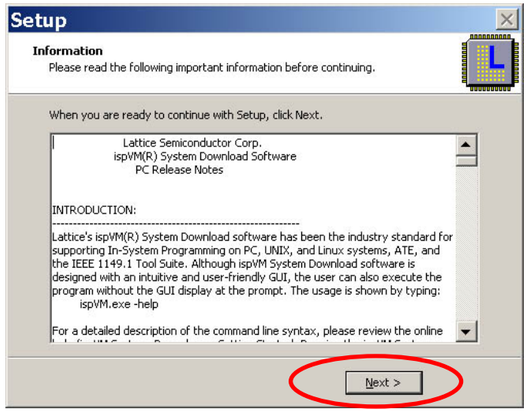
5. At the following prompt, click **Yes**.



6. The following screen appears showing installation progress.



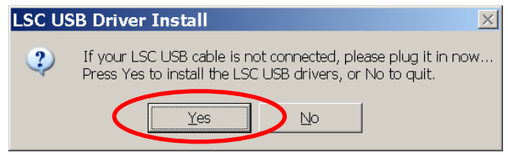
7. When installation setup is complete an information screen containing software release notes is displayed. Click **Next** to continue.



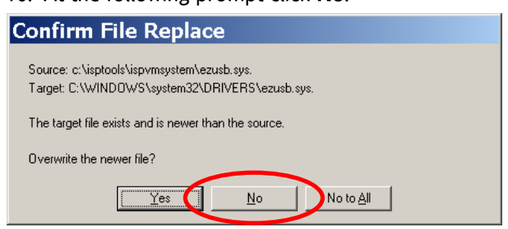
8. On the following screen, select the **LSC Windows USB Driver** option and then click **Install**.

NOTE: If the Lattice upload cable is not connected between the PC and the 80418 module, connect it at this time. Connection instructions are provided at the end of this Quick Reference Guide.

9. With the Lattice upload cable connected, click **Yes** on the following prompt.



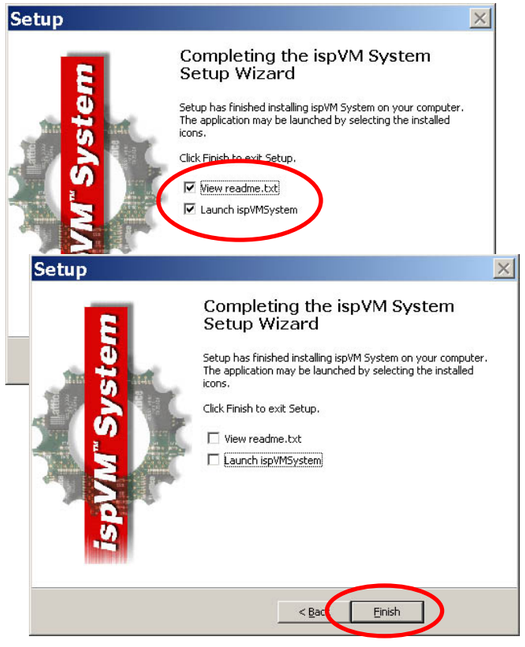
10. At the following prompt click **No**.



11. At the following prompt click **OK**.

12. When the Install screen reappears, click **Close**.

13. The Setup splash screen is redisplayed. De-select both options and then click **Finish** to close the Lattice application.

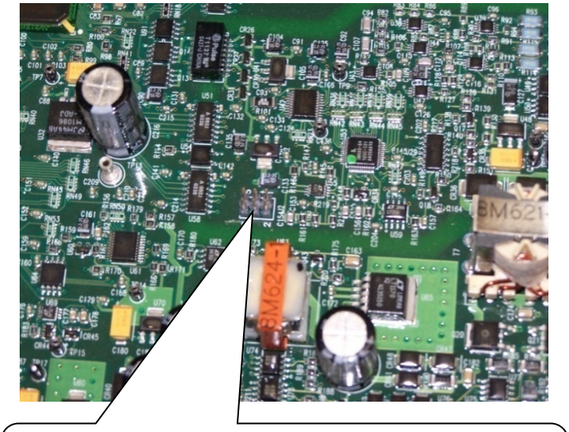


Lattice Upload Cable Connection

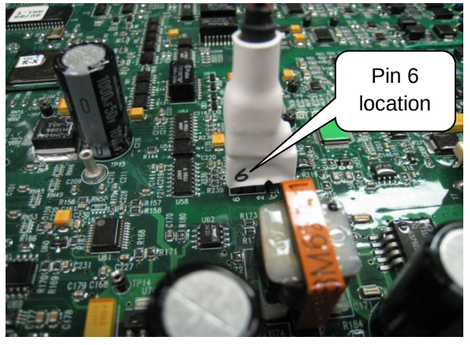
1. Remove the Track Module from the GCP 4000 system.

2. Connect the Lattice upload cable supplied with the kit to J2 on the Track Module as shown in the photos below. These photos indicate the cable connection on board levels C and D. The connector on B-level Track Modules is rotated 90 degrees counter-clockwise, but the pin numbers remain the same.

Lattice Upload Cable, Part Number 8000-26696-0001



Connect the Lattice upload cable to J-2 on the module. Ensure proper orientation of the cable so pin 6 on the module connects with pin 6 on the cable.



Connection on board levels C and D

NOTE

The male connector on the Track Module is a 6-pin connector. The female connector on the upload cable provided with the kit is a 10-pin connector. Connector pin numbers are etched on the Track Module surface adjacent to the 6-pin connector. Be sure to orient the cable connector correctly before attaching it to the module connector.

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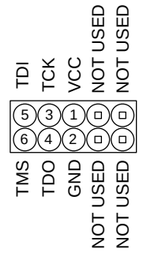
The following table identifies signal pin assignments, wire color code and pin locations on the upload cable connector.

Lattice Upload Interface Cable		
Pin Position	**Designation**	**Color**
#1	VCC	Red
#2	GND	Black
#3	TCK	White
#4	TDO	Brown
#5	TDI	Orange
#6	TMS	Violet



NOTE

The GCP 4000 Track Module DOES NOT need to be inserted into a working GCP 4000 chassis and/or have power applied during the CPLD upload procedure.

3. Connect the other end of the cable to a USB port on the computer.