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## LINX™ DVI Switchers and LINX CrossXFormat® Switchers Firmware Version 2.4.1 Upgrade Procedure March 2011

Please see “Transferring Files” and the EXPORTSETTINGS command in the *Linx User’s Guide* for steps preceding this procedure. Use this procedure to upgrade firmware from version 2.1 or later to version 2.4.1. To upgrade a system with firmware prior to 2.1, please see the User’s Guide. Upgrades subsequent to 2.4.1 are also detailed in the manual.

It is recommended that system settings and presets be exported and downloaded to a PC prior to beginning the upgrade. Settings may then be uploaded and imported following the upgrade. See the User’s Guide for further information.

Performing the firmware upgrade via the serial port is preferable to using the Ethernet port, because the Linx will continue to communicate its status even through system reset. While Telnet may be used to enter commands, Ethernet connections are lost when the Linx resets, requiring a new log-in after each occurrence and therefore cannot provide the continual status, including when a reset cycle has completed.

### Important Notes

After uploading the firmware file to the RGB folder on the Linx, do not transfer any additional files to the same folder for any reason until UFW has completed. If the wrong firmware file has been uploaded, reboot the switcher before uploading the correct file.

Do not reboot any connected source computers during the firmware upgrade.

Do not send any other commands to the Linx during the firmware upgrade.

Do not disconnect power to the Linx during the firmware upgrade.

When performing a firmware upgrade using a serial interface, set the baud rate to 9600.

### Upgrade Procedure

1. Upload the new firmware to the Linx Switcher.
2. Using a serial or Telnet connection, issue the **UFW** command.
3. For serial control, wait until the prompt is displayed again. For Telnet operation, wait approximately 10 minutes before re-establishing communication.
4. Issue the **SYSINFO** command.
5. Verify that the firmware version is now 2.4.1.
6. Issue the **UFW** command a second time. Again, the prompt will be displayed when the update has completed execution via the serial port. Allow 30 minutes before re-establishing a Telnet connection.

7. Issue the **SYSINFO** again. A successful upgrade will result in the following versions being reported.

- Backplane FPGA version 1.22 for the Linx 1600/1700 and Linx 3200/3300
- Backplane FPGA version 1.23 for the Linx 800/900
- CPLD firmware version 1.17

Input Cards

- Single dual-link: firmware version 0.104; FPGA version 2.1.2
- Dual single-link DVI/RGB: firmware version 0.104; FPGA version 0.2.20
- Dual single-link DVI: firmware version 0.104; FPGA version 1.1.1
- *Dual-link/single-link: firmware 0.104; FPGA version 2.20 (for units shipped before April 2010)*

Output Cards

- Single dual-link DVI: firmware version 0.105; FPGA version 3.1.2
- Dual single-link DVI: firmware version 0.105; FPGA version 0.2.20
- *Dual-link/single-link: firmware 0.105; FPGA version 2.20 (for units shipped before April 2010)*