



Liebert®

GXT5™ Firmware Update Procedure

15-20K MV Models

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Technical Support Site

If you encounter any installation or operational issues with your product, check the pertinent section of this manual to see if the issue can be resolved by following outlined procedures. Visit <https://www.vertiv.com/en-us/support/> for additional assistance.

1. Overview

The GXT5 UPS firmware is easily updated by downloading zip files from the Vertiv website to your computer and then using one of two methods to update the UPS detailed in this document.

- Web interface on the IntelliSlot RDU101 communication card. (Recommended) [Section 3](#)
- Through a command line interface using a serial connection to the RS-232 port of the UPS. [Section 4](#)

2. Preparation

- 2.1 Reserve approximately 10-15 minutes for this update procedure.
- 2.2 Power the UPS by the nominal utility AC input source during the update. Battery mode cannot be used. Be sure there are no expected utility outages during the update. If a utility outage happens during the update, the update needs to be restarted.
- 2.3 Download to your computer and unzip the latest update zip file from the [Vertiv website](#) to be used for the update.

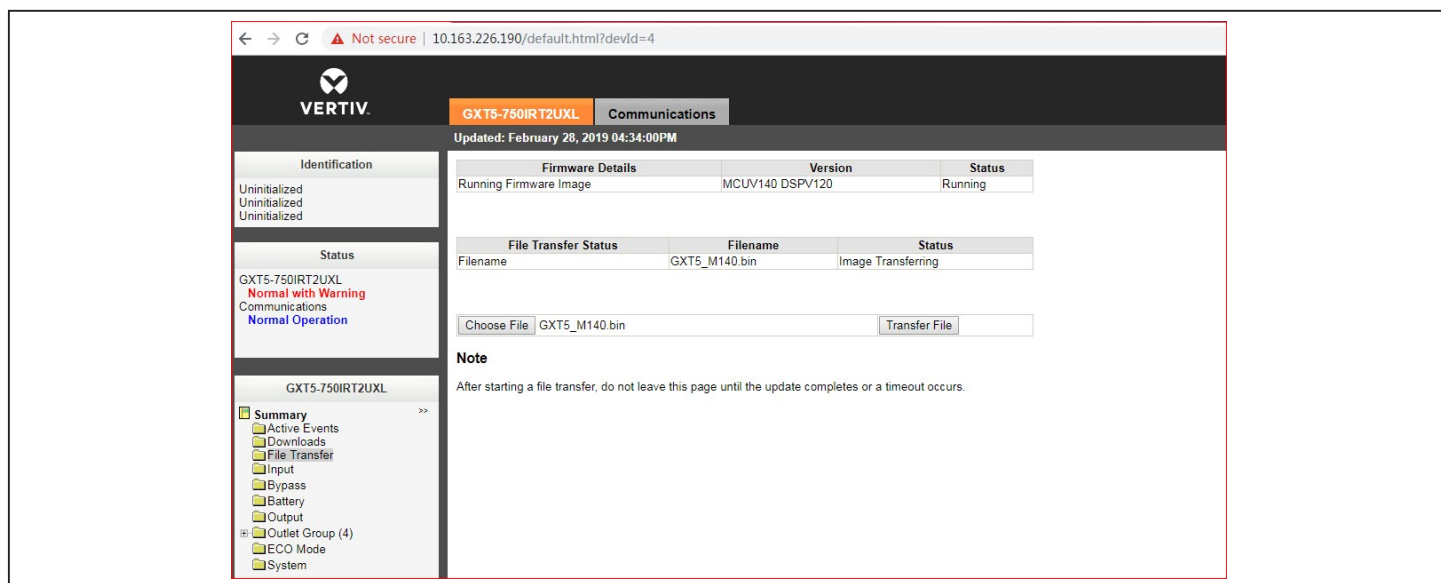
3. Updating Firmware with RDU101 Card Connection

- 3.1 Connect network
 - 3.1.1 Connect a network cable to the RJ-45 Ethernet port of the RDU101 card indicated in Figure 1. For detailed operating instructions for the card, refer to the RDU101 Communications Card Installer/User Guide, available [here](#).
 - 3.1.2 On a computer connected to the same network as the UPS, open a browser window and enter the IP address of the RDU101 card in the address bar. You can get the card's IP address from the UPS LCD. Select the About menu then the Product tab and locate IPv4 address. You may need to scroll up or down to find the correct field. Alternatively, contact your network administrator for the IP address assigned UPS.

Figure 1 – Network connection to RDU101



Figure 2 – File Transfer page on the RDU101 Web Interface



3.2 Firmware File Transfer to UPS

With the 5.30.2020 firmware release (UPS firmware version MCUV180), Vertiv has put in place a security enhancements to only allow Vertiv authentic encrypted firmware files to be transferred to the UPS. Therefore, when updating UPS firmware that is older than the 5.30.2020 release (UPS firmware versions MCUV170, MCUV160, etc), it will be necessary to first update the UPS to this secure method, and then repeat the update to the latest version. The secure update file is included with each zip download and is named GXT5-Secure-Update(*)(*).bin.

- 3.2.1 On the *File Transfer* page, click *Choose File*, select the upgrade file, and click *Transfer file*.
- 3.2.2 Enter the Username and Password, then click *Login*. The username and password may have been changed from the default. If so, contact your company's administrator for credentials.

The factory defaults are:

Username: Liebert (case-sensitive)

Password: Liebert (case-sensitive)

- 3.2.3 Confirm the Firmware Transfer Status field first changes to Image Transferring and then cycles through additional status. Do not leave or close this page.
- 3.2.4 Confirm after approx. 5 mins the Firmware Transfer Status field changes to Update complete, the UPS restarts, and the web page refreshes after the restart.
- 3.2.5 Confirm both firmware versions on the File Transfer page match the file loaded.

4. Updating Firmware with a CLI Connection

You can use the GXT5 command-line interface to update firmware with a computer connected to the RS-232 (RJ-45) port on the rear of the UPS.

4.1 Preparation

To perform the update via CLI, you need the following:

- Serial-terminal emulator with Ymodem file transfer capability (for example: ExtraPuTTY)
- RJ-45-to-DB9 serial cable or RJ-45-to-USB serial-to-USB adaptor cable



4.2 Serial Connection

- 4.2.1 Connect the RJ-45 connector to the RS-232 port on the UPS. This may be labeled RS-232 or R232 depending on model. See Figure 3 for port location.
- 4.2.2 Connect the DB9/USB connector to the computer with the serial-terminal emulator installed.

Figure 3 – RS-232 Port



4.3 Firmware File Transfer to UPS

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- 4.3.1 Open the serial-terminal emulator, and adjust the settings to communicate with the UPS. Select *Serial/connection* for the session.
- 4.3.2 Check the computer *Device Management* settings to determine the correct the communication port (for example, COM6) and select it in the emulator.
- 4.3.3 Select 115200 for the connection speed and open the terminal emulator session.
- 4.3.4 On the CLI, enter the username and password. The username and password may have been changed from the default. If so, contact your company's administrator for credentials.
 - The factory defaults are:
 - Username: user (case-sensitive)
 - Password: 123456 (case-sensitive)
- 4.3.5 On the command line, enter *update*, then press *d* on the keyboard, see Figure 3 on the next page.
- 4.3.6 In the menu bar, select *Files Transfer*, then *Ymodem*, select the upgrade file, and click *Send*.
- 4.3.7 The status of the transfer displays in a status dialog. After about 5 minutes, the UPS restarts and the CLI exits update mode. Do not close the status dialog.
- 4.3.8 After the UPS restarts, confirm both firmware versions on the UPS LCD *About* menu *Product* tab match the file loaded.

Figure 3 - File Transfer with the CLI

