

Firmware update

The firmware of the printer is saved in a Flash EPROM. You can update the firmware using the following functions:

- **Firmware upd.:** Copy a firmware file from a computer connected to one of the interfaces of a label printer.
- **Firmw. fr. card:** Copy a firmware file from a memory card.
- FTP firmware update via FTP printer management.

Copying new firmware via interface

1. Press the **menu** button.
2. Select **Service > Firmware upd.** menu.
3. Press the **↓** button.
The **Firmware-Upd** message appears in the display.
4. Press the **↓** button.
5. If the function **Firmware upd.** is protected via a PIN, use the buttons **▲**, **▼**, **▶** and **◀** to enter the code number and confirm with the **↓** button.
6. Open the DOS input window on the PC.
7. Configure the serial interface of the PC with the mode command. Enter the command **mode com1: baud=115200 parity=n data=8 stop=1**, for example
8. Send the firmware file (e.g. 303_6518.x2) to the printer. Enter the command **copy /b 303_6518.x2 com1:** , for example.
A progress indicator is displayed while the firmware is being copied. **OK** appears in the display once copying is successfully completed.
9. Press the **↓** button.

Copying new firmware from memory card

1. Format CompactFlash memory card in printer.
The directories "fonts", "images", "labels" and "misc" are created on the memory card here.
2. Copy the firmware file to the "misc" directory in a CompactFlash drive.
3. Insert the prepared memory card into the printer.
4. Press the **menu** button.
5. Select **Service > Firmw. fr. card** menu.
6. Press the **↓** button.
7. If the function **Firmw. fr. card** is protected via a PIN, use the buttons **▲**, **▼**, **▶** and **◀** to enter the code number and confirm with the **↓** button.
The names of the firmware files found on the memory card are shown in the display.
8. If several firmware files are found on the memory card, select the desired file with the **▲** and **▼** buttons.
9. Press the **↓** button.
The selected firmware file is copied. A progress indicator is displayed while the firmware is being copied. **OK** appears in the display once copying is successfully completed.
10. Press the **↓** button.

FTP firmware update

Using the File Transfer Protocol (FTP), you can carry out a firmware update on the network via the Ethernet interface. You will require an FTP program (FTP client) which supports the "binary" transfer mode to manage the printer. The printer functions as an FTP server.

To establish an FTP connection, the client must be logged on to the server. The logon type depends on the client. The following information must be specified in any case, however:

- IP address of the label printer
- User name and password

! To carry out a firmware update, you must be logged on with the username "root". It is absolutely necessary to define a PIN for FTP access with the user name "root". The initial setting of the PIN can be made via the operating panel of the printer or via the printer website.

1. Ensure that the label printer is in "Ready" mode. See the "Status" tab of the printer website.
2. Start the FTP client.
3. Establish a connection to the printer using the IP address.
4. Log on with the user name "root" and the PIN of the printer as password.
5. Set the "binary" transfer mode in the FTP client.
6. Open the "system" folder.
7. Copy a valid firmware file (e.g. 303_6518.x2) to the "system" folder.

FTP-Firmware-UPd appears in the display of the printer. The status of the saving procedure is shown by a progress indicator in the display. The printer resets automatically after the update is carried out successfully.

You can check whether the firmware update was carried out successfully on the "Status" tab of the printer website.

Error messages during the firmware update

If an error occurs during the update, one of the following error codes is shown in the display:

Error code	Meaning
C	Checksum error. /b may have been forgotten in the COPY command or the file is defective.
H	Header error. /b may have been forgotten in the COPY command or the file is defective.
E	EPROM could not be cleared.
V	Programming voltage is too low.
P	Programming error.

Tab. 1: Possible error codes with a firmware update

i If an error occurs with a firmware update, the old firmware version is no longer usable. Restart programming in this case.