

# Software Download/ Upload Procedure of the Loop-V 4200-9

This LoopV4200 controller software is flash memory based and allows software updates or download/uploads through the Ethernet port, as shown in Figures 1 and 2.

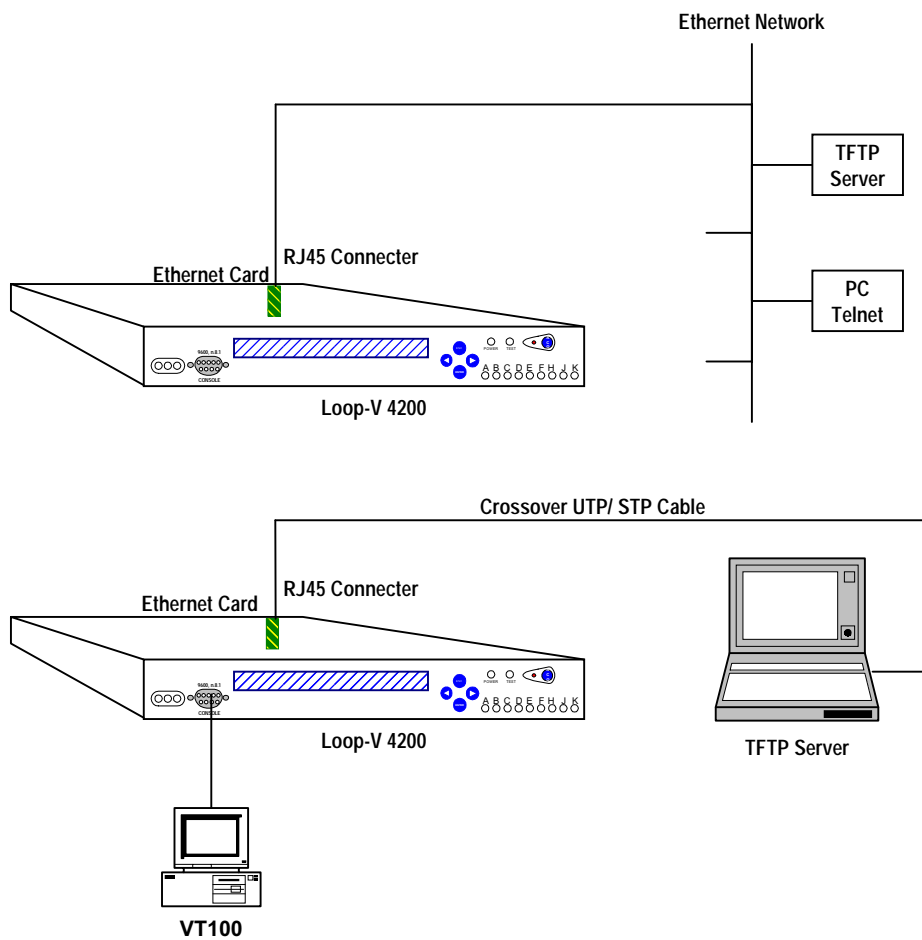


Figure 1 Software Download Operation Setup - separate PC

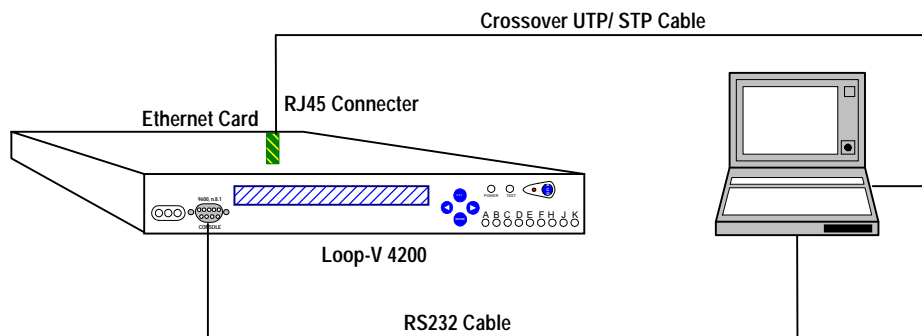


Figure 2 Software Download Operation Setup - single PC

## Equipment Needed

- (1) Loop-V 4200 equipped with SNMP (Ethernet Card).
- (2) TFTP Server – This is a PC running TFTP software. To insure compatibility, use the TFTP copy supplied by Loop. This PC should have an Ethernet port (PCMCIA card for LAN connection). The server should have an IP address assigned. See your MIS manager if not assigned.  
**Note:** One TFTP can simultaneously download to several Loop-V 4200.
- (3) VT100 Terminal – This can be a PC running VT100 emulation software. This PC should have an RS232 port. This can be the same PC as above server running concurrent programs of TFTP and VT100 emulation, Figure 2.
- (4) Ethernet line – As shown in Figure 1, either an Ethernet network or a crossover cable can be used to connect the TFTP server to the Loop-V 4200.

## Download Procedure

The download procedure is as follows:

- A. Connect the SNMP (Ethernet) of the Loop-V 4200 to the TFTP server Ethernet port.

**NOTE:** Use straight Ethernet cable if an Ethernet Hub is used. Use a cross-over Ethernet cable for a direct connection from TFTP server to the Loop-V 4200.

- B. Run the TFTP program. A screen will be shown with the server IP address displayed.
- C. Hook-up the COM PORT 1 of the VT100 (PC running VT100 emulation) to the Loop-V 4200 through the front console port.
- D. Run a VT100 terminal or TELNET program after connecting to the Loop-V 4200. A TELNET terminal will show screens similar to the VT100.
- E. From the main menu, press "L", then select DOWNLOAD of controller firmware.
- F. Enter the proper TFTP Server IP address and the firmware file name (file to be download). Note: If the TFTP program and the firmware reside on separate volumes (hard disks), enter the complete file address including volume prefix, i.e. C:/file/name for hard disk, A:/file/name for floppy disk.
- G. Press ESC and confirm with Y.  
**Note:** The new downloaded firmware is not effective until the controller is rebooted.
- H. If the specified firmware was downloaded successfully, the following message is displayed:
- ```
15:57:20 5/28/01 Downloading Firmware ... Receive 1533 Blocks
15:59:58 5/28/01 Check sum ok
15:59:58 5/28/01 Received 786432 bytes in 159 seconds
```
- I. Reboot the controller after the software download. The reboot will implement the new firmware. If there is problem running the new downloaded firmware, it is possible to revert to the previous version firmware by pressing the LEFT & RIGHT keys simultaneously while powering on.

## Upload Procedure

The upload procedure is similar to the download procedure:

- A. Connect the Loop-V 4200 to the TFTP server through the Ethernet port located in the back of the device.

**NOTE:** Use straight Ethernet cable if an Ethernet Hub is used. Use a cross-over Ethernet cable for a direct connection from TFTP server to the Loop-V 4200.

- B. Run the TFTP program. A screen will be shown with the server IP address displayed.
- C. Hook-up the COM PORT 1 of the VT100 (PC running VT100 emulation) to the Loop-V 4200 through the front console port.
- D. Run a VT100 terminal or TELNET program after connecting to the Loop-V 4200. A TELNET terminal will show screens similar to the VT100.
- E. From the main menu, press "L", then select UPLOAD of controller firmware.
- F. ENTER the proper TFTP Server IP address and firmware file name (file to be upload). Note: If the TFTP program and the firmware reside on separate volumes (hard disks), enter the complete file address including volume prefix, i.e. C:/file/name for hard disk, A:/file/name for floppy.
- G. Press ESC and confirm with Y.
- H. If the specified firmware was uploaded successfully, the following message is displayed:
- ```
15:55:12 5/28/01 Uploading Firmware ... Send 1536 Blocks
15:56:29 5/28/01 Sent 786432 bytes in 78 seconds
```