

LED Display Modules

Catalog Numbers 2711P-RDK15C, 2711P-RDT15C, 2711P-RDB15C, 2711P-RDT15AG, 2711P-RDK12C, 2711P-RDK12CK, 2711P-RDT12C, 2711P-RDT12CK, 2711P-RDT12AG, 2711P-RDB12C, 2711P-RDB12CK

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About the Product

Display modules with an LED (light-emitting diode) backlight are used by the PanelView™ Plus 6 and PanelView Plus 700 to 1500 platforms. Earlier displays have a CCFL (cold-cathode fluorescent lamp) backlight.

IMPORTANT If you replace a 12-inch or 15-inch CCFL display with an LED display, you must upgrade the terminal firmware for the device to operate correctly.

A firmware upgrade is not required for configured terminals that include a display module and logic module. The upgrade is required only when ordering an LED display module to replace an existing CCFL display module.

Each display module has a catalog number and a series letter. The series letter differentiates an LED-backlit display from a CCFL-backlit display. You can find the series letter on the back of the display. Refer to the table to identify the type of display you have.

Display Size	Cat. Nos.	LED Series Displays	CCFL Series Displays
15-inch	2711P-RDK15C, 2711P-RDT15C, 2711P-RDB15C, 2711P-RDT15AG	Series C	Series B or earlier
12-inch	2711P-RDK12C, 2711P-RDK12CK, 2711P-RDT12C, 2711P-RDT12CK, 2711P-RDT12AG, 2711P-RDB12C, 2711P-RDB12CK	Series D	Series C or earlier

Important User Information

Solid-state equipment has operational characteristics differing from those of electromechanical equipment. Safety Guidelines for the Application, Installation and Maintenance of Solid State Controls (publication [SGI-1.1](#) available from your local Rockwell Automation® sales office or online at <http://www.rockwellautomation.com/literature/>) describes some important differences between solid-state equipment and hard-wired electromechanical devices. Because of this difference, and also because of the wide variety of uses for solid-state equipment, all persons responsible for applying this equipment must satisfy themselves that each intended application of this equipment is acceptable.

In no event will Rockwell Automation, Inc. be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.

The examples and diagrams in this manual are included solely for illustrative purposes. Because of the many variables and requirements associated with any particular installation, Rockwell Automation, Inc. cannot assume responsibility or liability for actual use based on the examples and diagrams.

No patent liability is assumed by Rockwell Automation, Inc. with respect to use of information, circuits, equipment, or software described in this manual.

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Throughout this manual, when necessary, we use notes to make you aware of safety considerations.



WARNING: Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss.



ATTENTION: Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss. Attentions help you identify a hazard, avoid a hazard and recognize the consequences.



SHOCK HAZARD: Labels may be on or inside the equipment, for example, a drive or motor, to alert people that dangerous voltage may be present.



BURN HAZARD: Labels may be on or inside the equipment, for example, a drive or motor, to alert people that surfaces may reach dangerous temperatures.

IMPORTANT

Identifies information that is critical for successful application and understanding of the product.

Replace Display Module

To replace a display module, refer to the appropriate manual under Additional Resources.

IMPORTANT Before mounting the LED series display module, make sure the firmware installed in the logic module is at the firmware revision listed in the table under Upgrade Firmware.

You must use CCFL series display module to upgrade the firmware; the display must be for 700 to 1500 platforms.

If no other display is available, the complete terminal must be returned to your local Allen-Bradley distributor for exchange or repair.

Upgrade Firmware

Follow these steps to locate the firmware update for your terminal.

1. Go to <http://www.rockwellautomation.com/support/pcdc.page>.
2. Click the Get Downloads tab.
3. Click Find Product Downloads.
4. From the All Families pull-down menu, choose PanelView Plus 6 700 - 1500 or PanelView Plus 700 - 1500.
5. Click the family selection, then choose a firmware revision from the list.

The table shows the firmware revision required for your terminal.

For This PanelView Plus Family	Choose This Firmware Revision
PanelView Plus/PanelView Plus CE 700 to 1500	5.10.11 or later
PanelView Plus 6 700 to 1500	7.00.20130619 or later

6. Click Find Downloads at the bottom of the Selections tab.
7. Under Downloads, click the show downloads  icon to access the firmware.
8. Download the upgrade file (.exe) to a temporary folder on the same drive as FactoryTalk® View Machine Edition (ME) software.
9. Run the upgrade file (.exe) installation procedure:
 - The FUW is installed in the FactoryTalk View ME folder.
 - The firmware upgrade package (.fup) file is installed into the folder specified during the installation procedure.

You are now ready to run the FUW to upgrade the terminal firmware from a storage device or by using a network connection.

Firmware Upgrade Wizard

The Firmware Upgrade Wizard (FUW) is used to upgrade the terminal firmware. Two methods are provided for upgrading the firmware:

- Create a firmware upgrade card with the contents of the FUP file that you can then load in the terminal to upgrade the firmware.

The firmware upgrade card can be a USB flash drive, CompactFlash (CF) card, or an SD card, catalog number 1784-SDx.

- Upgrade firmware in a terminal connected to a computer over a direct network connection. The network connection requires a computer with RSLinx® Enterprise software installed.

RSLinx Enterprise software is required so you can choose the terminal to upgrade.

IMPORTANT	Use the latest version of RSLinx Enterprise software, which is available at https://rockwellautomation.custhelp.com/app/answers/detail/a_id/49190 .
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You can run the FUW from within FactoryTalk View Studio software or from the Programs menu on your computer:

- In FactoryTalk View Studio software, from the Tools menu, choose Firmware Upgrade Wizard.
- Choose Start>Programs>Rockwell Software>FactoryTalk View>Tools>ME Firmware Upgrade Wizard.

Upgrading Terminal Firmware from a Storage Device

Upgrading firmware from a storage device is a two-step process. First, you create a firmware upgrade card with the required firmware files. Secondly, you load the card in the target terminal to upgrade the firmware.

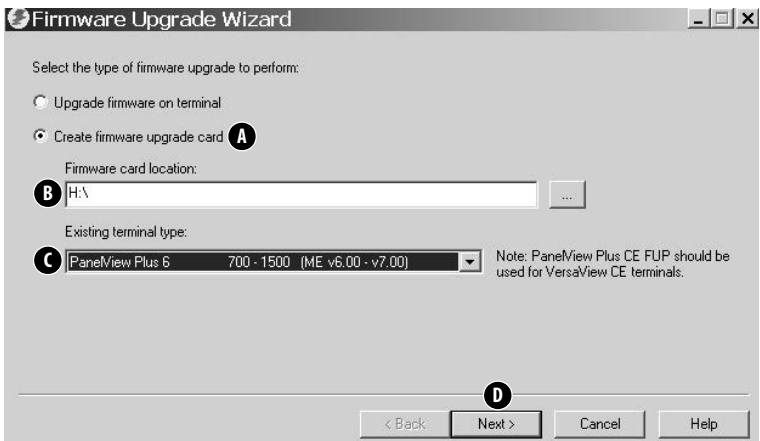
The firmware upgrade card can be a USB flash drive, CF card, or an SD card.

Create a Firmware Upgrade Card

Follow these steps to copy firmware files to a USB flash drive, CF card, or SD card.

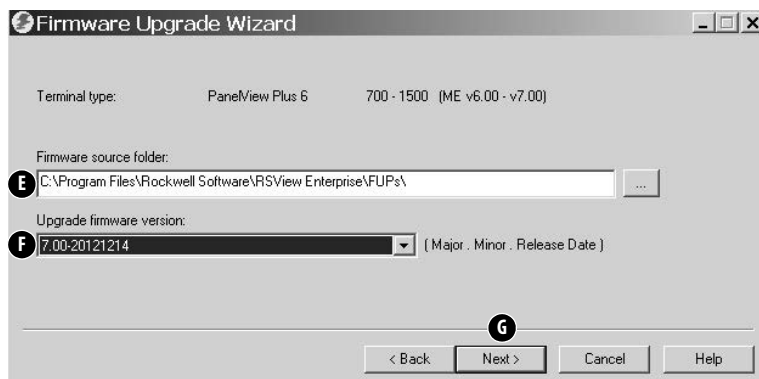
1. Insert either a USB flash drive, CF card, or an SD card into the appropriate slot on your computer.
2. Run the Firmware Upgrade Wizard:
 - a. In FactoryTalk View Studio software, from the Tools menu, choose Firmware Upgrade Wizard.
 - b. Choose Start>Programs>Rockwell Software>FactoryTalk View>Tools>ME Firmware Upgrade Wizard.

3. Follow these steps from the initial FUW dialog box.
 - a. Click Create firmware upgrade card (A).
 - b. Choose the location of the firmware card by browsing to the root directory of the storage card loaded in your computer (for example, H:\ or B).
The firmware files are copied to this location. You can also specify a folder on the hard drive.
 - c. From the Existing terminal type pull-down menu, choose a version v6.00-v7.00 PanelView Plus 6 terminal.
The example shows the firmware upgrade is for a 700 - 1500 PanelView Plus 6 terminal (C).
 - d. Click Next (D).



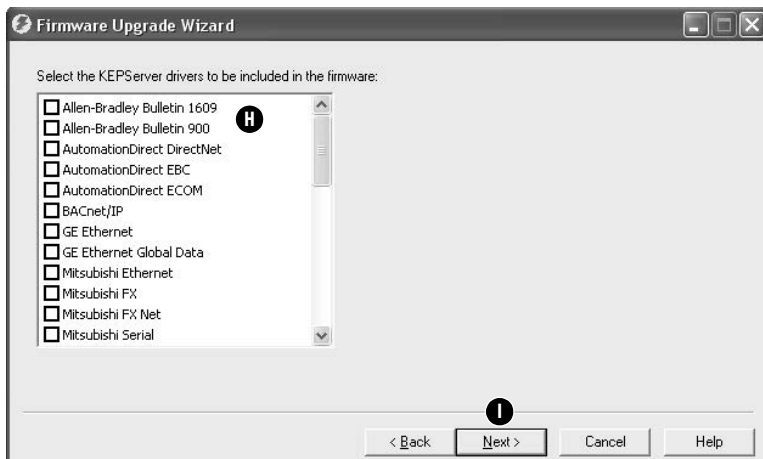
4. Follow these steps from this dialog box.
 - a. Browse to the location of the firmware source files on your computer, where the FUP was installed (E).
 - b. From the Upgrade firmware version pull-down menu, choose the firmware revision for the upgrade (F).
 - c. Click Next (G).

It can take several seconds for the next dialog box to appear while the FUP is being retrieved.



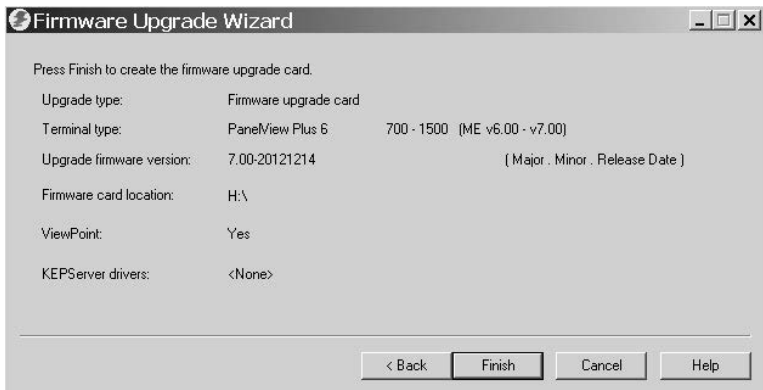
5. Follow these steps from this dialog box.
 - a. Optionally choose the KEPServer drivers you want included in the firmware (H).
 - b. Click Next (I).

Keeware drivers are already installed on the PanelView Plus 6 terminals.



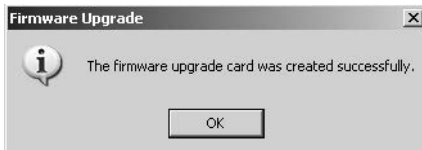
The final dialog box summarizes your choices for creating the firmware upgrade card.

6. Click Finish to update the firmware in the terminal.



A progress bar automatically updates as files are copied to the USB flash drive, CF card, or SD card.

7. Click OK when the firmware upgrade completes successfully.



TIP If the firmware files were copied to the hard drive, copy the files to the root directory of the USB flash drive, CF card, or SD card.

8. Remove the USB flash drive, CF card, or SD card from your computer.
9. Proceed to the next section to use this firmware upgrade card to upgrade the terminal firmware.

Upgrade Terminal Firmware by Using Firmware Upgrade Card

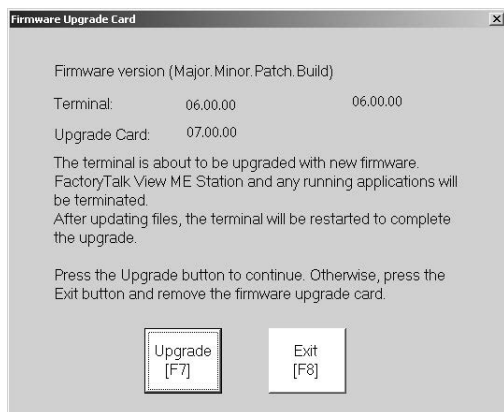
Follows these steps to transfer firmware files from the USB flash drive, CF card, or SD card to the terminal. This is the firmware upgrade card created in the previous section.

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| IMPORTANT | <ul style="list-style-type: none"> • Do not remove or accidentally disconnect the USB flash drive, CF card, or SD card while a firmware upgrade is in process. This could corrupt the firmware and make the terminal unstable. • Do not power off the terminal during a firmware upgrade. • USB hubs can produce unexpected behavior and are not recommended. |
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1. Insert the USB flash drive, CF card, or SD card into the appropriate slot on your terminal.

The firmware upgrade automatically starts and displays this dialog box.

2. Press Upgrade or [F7] on the terminal to start the firmware upgrade.



The terminal restarts and displays a progress bar during the upgrade.

When the upgrade is complete, the terminal restarts, executing the new firmware.

3. Remove the USB flash drive, CF card, or SD card from the terminal.

Upgrade Terminal Firmware over the Network

You can upgrade firmware in a terminal connected to a computer over a direct network connection. The network connection requires a computer running the FUW and RSLinx Enterprise software.

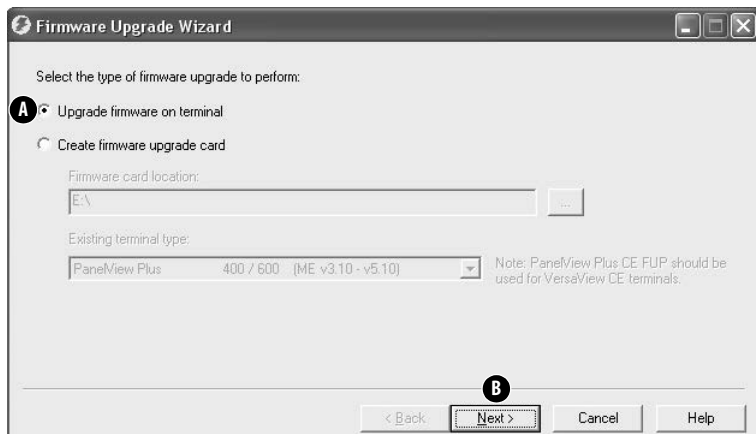
RSLinx Enterprise software is required so you can choose the terminal on the network.

IMPORTANT Use the latest version of RSLinx Enterprise software, which is available at https://rockwellautomation.custhelp.com/app/answers/detail/a_id/49190.

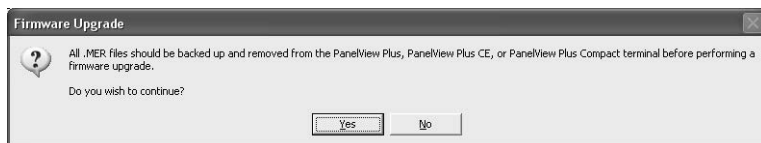
Follow these steps to copy firmware files to the terminal over a network by using RSLinx Enterprise software and Ethernet communication.

1. Run the FUW:
 - a. In FactoryTalk View Studio software, from the Tools menu, choose Firmware Upgrade Wizard.
 - b. Choose Start>Programs>Rockwell Software>FactoryTalk View>Tools>ME Firmware Upgrade Wizard.

- Click Upgrade firmware on terminal (A) and click Next (B).



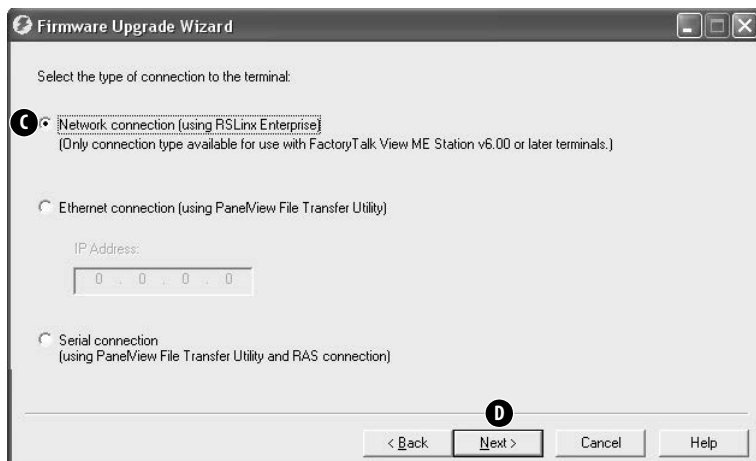
- Click Yes to continue.



It is not necessary to back up files on PanelView Plus 6 terminals.

- Click Network Connection (using RSLinx Enterprise) (C).

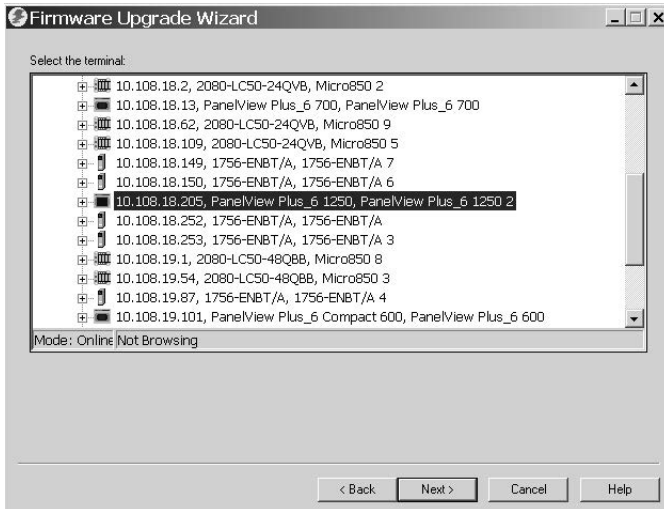
This is the only valid selection for PanelView Plus 6 terminals.



- Click Next (D).

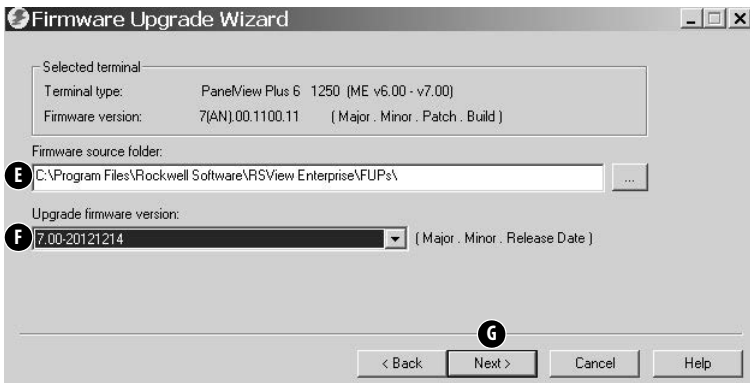
6. Navigate to and select the terminal to receive the firmware update.

IMPORTANT The highlighted selection in the figure below is only for illustration purposes. Your model can be different.



7. With the terminal selection highlighted, click Next.
8. Follow these steps from this dialog box.
- Browse to the location of the firmware source files on your computer, where the FUP was installed.
The default location is shown (E).
 - Choose the version of the upgrade firmware from the pull-down menu (F).
 - Click Next (G).

It can take several seconds for the next dialog box to appear while the FUP is being retrieved.



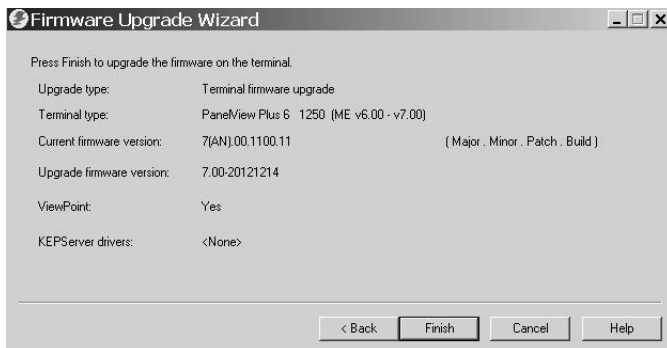
9. From this dialog box, optionally choose the KEPServer drivers you want included in the firmware, then click Next.

Keeware drivers are already installed on the PanelView Plus 6 terminals.

The final dialog box summarizes your choices for upgrading the terminal firmware.

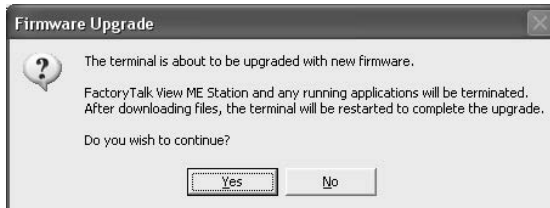


10. Click Finish to update the firmware in the terminal.



11. Click Yes to continue with the update.

A progress bar updates as firmware files are copied to the terminal.



12. Click OK when the firmware upgrade is complete.



The terminal restarts, executing the new firmware.

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Resource	Description
PanelView Plus 6 HMI Terminals User Manual, publication 2711P-UM006	Provides information for installing, configuring, operating, and troubleshooting PanelView Plus 6 terminals.
PanelView Plus Terminals User Manual, publication 2711P-UM001	Provides information for installing, configuring, operating, and troubleshooting the PanelView Plus terminals.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, http://www.rockwellautomation.com/rockwellautomation/certification/overview.page	Provides declarations of conformity, certificates, and other certification details.

You can view or download publications at <http://www.rockwellautomation.com/literature/>. To order paper copies of technical documentation, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.

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