

Visualization Solutions

PanelView Terminals and Industrial Computers



Product
Specifications

- [PanelView 5500](#)
- [PanelView Plus 7 Performance](#)
- [PanelView Plus 7 Standard](#)
- [PanelView Plus 6](#)
- [MobileView](#)
- [PanelView 800](#)
- [Industrial Computers and Monitors](#)

LISTEN.
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This selection guide is meant to help you make initial decisions for the visualization products that are best suited for your system requirements. For detailed technical specifications, certifications, and environmental specifications, see the documentation links on the front cover of this selection guide.

For assistance and validation in final product selections, consider using the Configuration and Selection tools available at <http://www.rockwellautomation.com/en/e-tools/index.html>.

What's New

To help you optimize productivity, Rockwell Automation is expanding its portfolio with the PanelView™ 5500 operator interface that is integrated with the Studio 5000 View Designer® application. This integration helps you build modern applications more easily and make data-driven decisions faster. The PanelView 5500 interface offers a wide range of display sizes from 7"…19" with wide screen, touch, and keypad options. In addition, it offers enhanced integration with Logix and an intuitive design environment.

For more information about PanelView 5500, including complete technical specifications, certifications, and environmental specifications, refer to the PanelView 5500 Specifications Technical Data, publication [2715-TD001](#).

Add Visualization to Your Control System

As a machine builder or end user, you design control solutions with an eye toward how to improve safety, achieve higher levels of performance and efficiency, and better integrate with the rest of the manufacturing operation. To achieve these goals, you need a scalable, modular control system that offers safety, throughput, and information management capabilities to match the requirements of each application.

Visualization products from Rockwell Automation comprise a suite of scalable HMI software and operator interface hardware that provide plant floor machine operators, supervisors, engineers, and business managers a window to critical data and production and process information. All of this information can be obtained from the plant floor and displayed on a local HMI or remotely on a web browser.

Whether it's a machine-level or site-level HMI, a Windows CE platform, a smaller component HMI, or an industrial computer, Rockwell Automation has a portfolio of visualization solutions to match your system requirements.

PanelView HMI Terminals

PanelView™ 5500 terminals, PanelView Plus 7 Performance terminals, PanelView Plus 7 Standard terminals, PanelView Plus 6 terminals, MobileView™ tethered operator terminals, PanelView 800 terminals, Studio 5000 View Designer®, FactoryTalk® View Machine Edition, and FactoryTalk View Site Edition provide premier integration in a number of ways:

- Reduced programming time with Logix native addressing and the ability to browse directly to Logix tags without creating a separate database.
- Simplified interaction of all networks with support for all Core Integrated Architecture® CIP networks including EtherNet/IP™, ControlNet, and numerous other drivers.
- Simplified development time with pre-engineered, pre-tested faceplates for specific motion, drives, and process applications.

PanelView HMI terminals are available with the following levels of control:

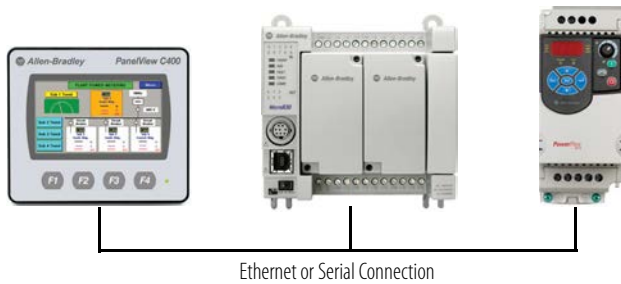
- Component Class
- Midrange (Small Control) Class
- Integrated Architecture Class

Component Class

This class combines a simple, powerful control core, a full suite of associated components, and a dedicated set of class-leading application development tools. These features provide enough control to meet machine control and end-customer requirements in the shortest possible time.

Typical Configurations

Micro800® with PanelView 800



Midrange (Small Control) Class

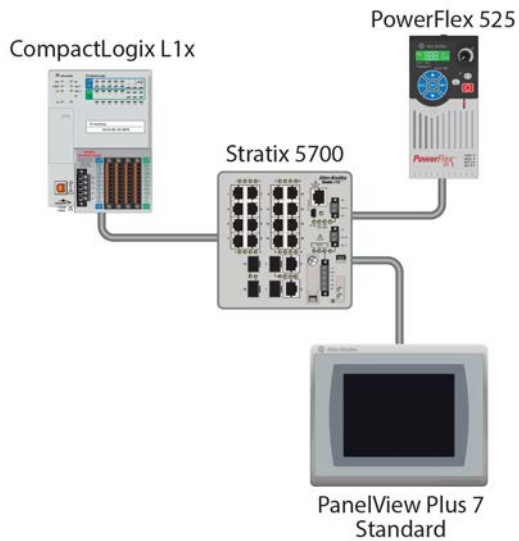
This scalable control system helps machine builders and their customers cost-effectively match their application needs and standardize on one control platform while receiving real-time information for smaller applications.

Typical Configurations

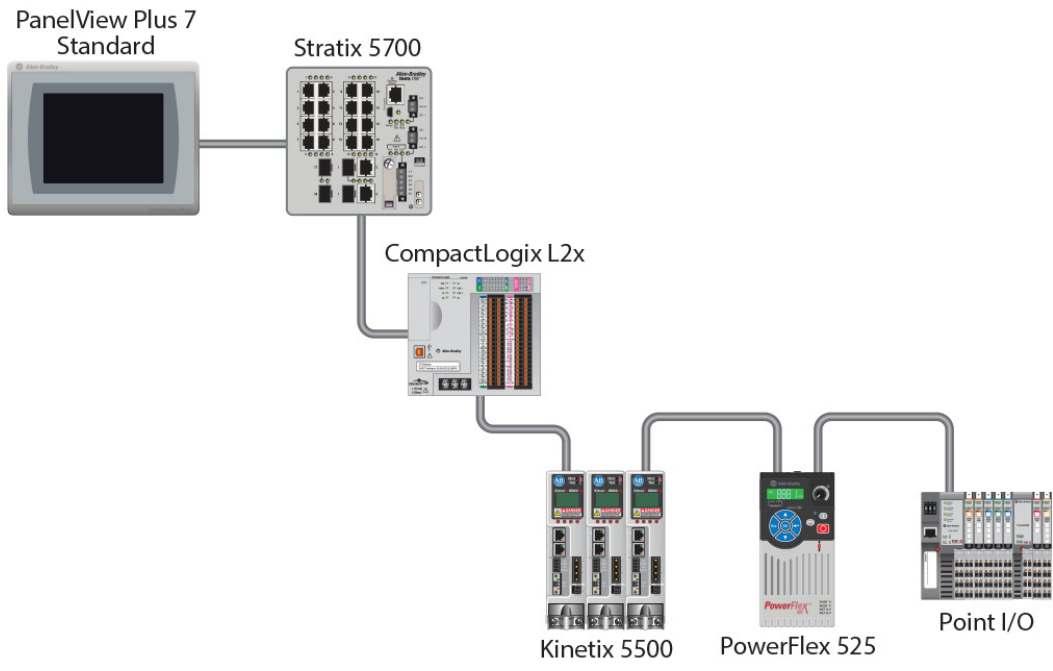
The following configurations are typically used in the midrange class:

- Star configuration
- Linear configuration
- Device Level Ring configuration

Star Configuration

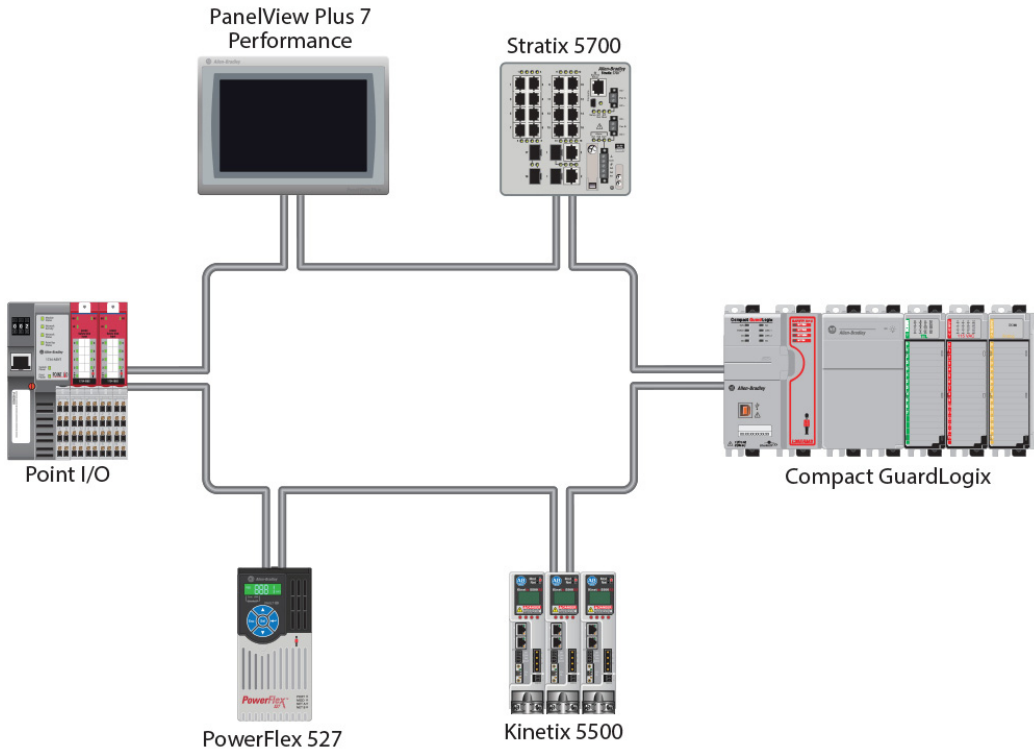


Linear Configuration



Device Level Ring Configuration

The PanelView Plus 7 standard terminal and the CompactLogix™ 5370 controller provide an integrated, Device Level Ring capable solution for mid-size applications. Typically, these applications are machine-level control applications that require smaller I/O quantities and benefit from EtherNet/IP communication capabilities.



Integrated Architecture Class

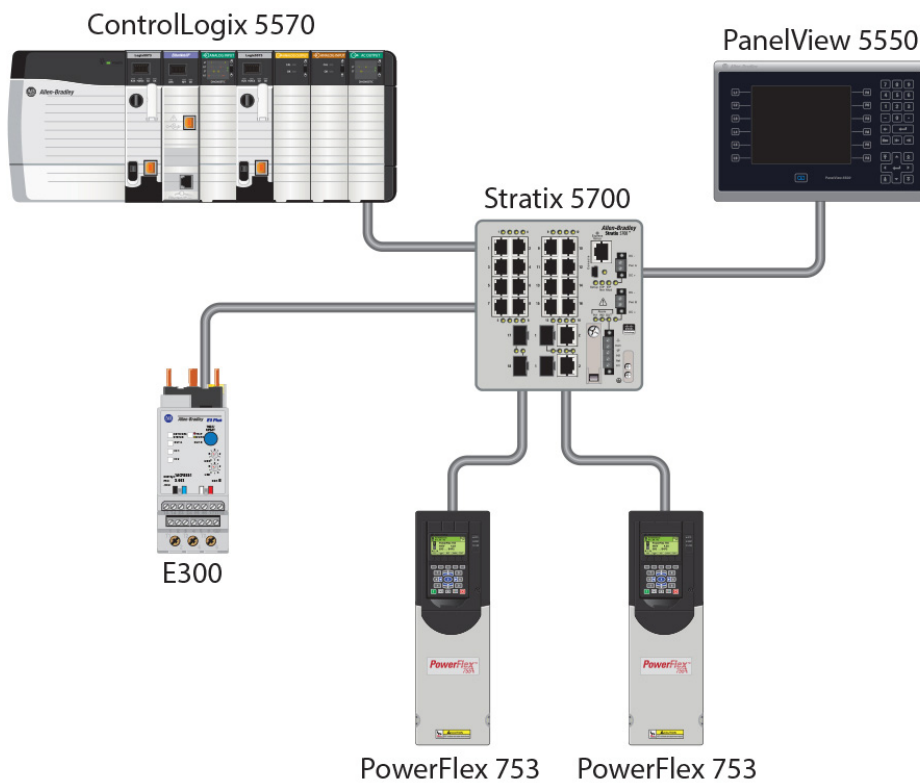
The Integrated Architecture™ system is unique in that it offers scalable, integrated safety, motion control, and visualization capabilities that are ideal for machine builders and end users who want one control and development environment, regardless of the application size or complexity. Large control systems integrate all control disciplines - process batch, discrete, drives, safety, and motion - into one connected and segmented, plant-wide infrastructure that uses a common design environment for all automation disciplines.

Typical Configurations

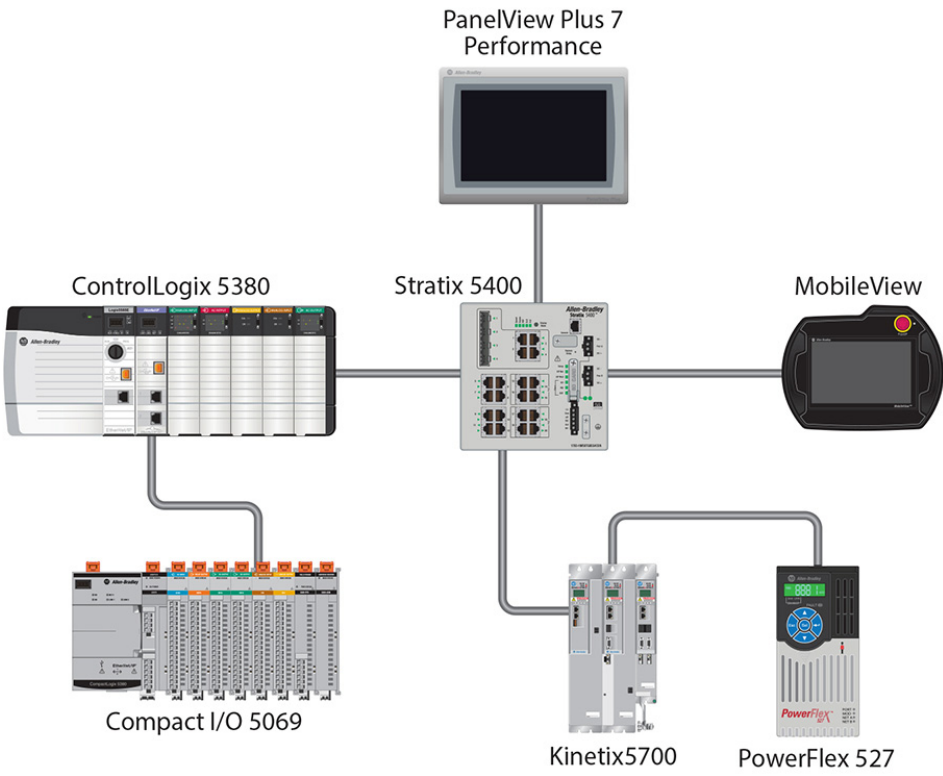
The following configurations are typically used in the integrated architecture class:

- Star configuration
- Linear configuration
- Device Level Ring configuration

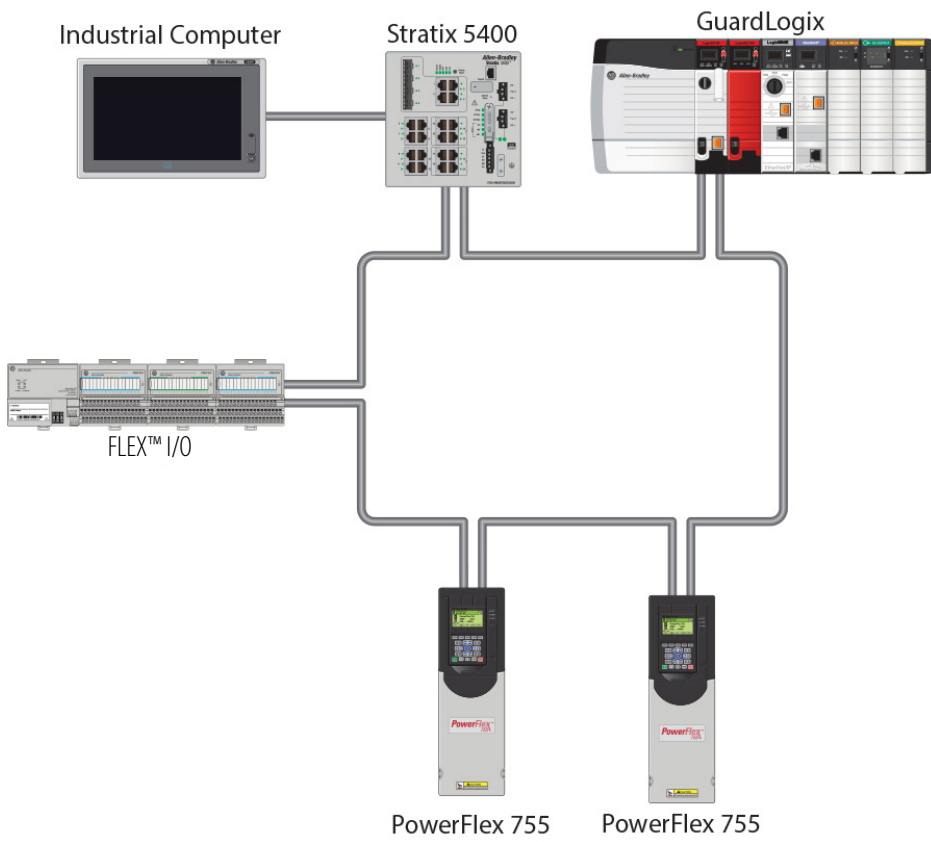
Star Configuration



Linear Configuration



Device Level Ring Configuration



Select a Visualization System

To select a visualization system, choose from the following tables.

PanelView HMI Terminals

This table provides a quick glance at comparisons between the different HMI terminal platforms.




HMI Terminal Comparison

Family	PanelView™ 5500	PanelView Plus 7 Performance	PanelView Plus 7 Standard	PanelView Plus 6	PanelView Plus 6 Compact	MobileView™	PanelView 800
Preferred controller	ControlLogix® 5570 or CompactLogix™ 5370	ControlLogix or CompactLogix	ControlLogix or CompactLogix	ControlLogix or CompactLogix	CompactLogix	ControlLogix or CompactLogix	Micro800® and MicroLogix™
Display	LED backlit LCD, 262K colors, widescreen options	LED backlit LCD, 262K colors, widescreen options	LED backlit LCD, 262K colors, widescreen options	LED backlit LCD, 262K colors, grayscale options	LED backlit LCD, 262K colors, grayscale options	LED backlit LCD, 262K colors	LED backlit LCD, 65K colors, widescreen options
Size	7 in., 9 in. (wide), 10 in., 12 in. (wide), 15 in., or 19 in.	7 in., 9 in. (wide), 10 in., 12 in. (wide), 15 in., or 19 in.	4 in. (wide), 6 in., 7 in., 9 in. (wide), 10 in., 12 in. (wide), or 15 in.	4 in., 6 in., 7 in., 10 in., 12 in., or 15 in.	4 in., 6 in., or 10 in.	10 in. (wide)	4 in. (wide), 7 in. (wide), or 10 in.
Input type	touch screen keypad/touch screen	touch screen keypad/touch screen	touch screen	keypad touch screen keypad/touch screen	keypad touch screen keypad/touch screen	Function keys/touch Touch	touch screen touch screen + 4 keys
Communication	EtherNet/IP with DLR support	EtherNet/IP with DLR support Kepware Server available to support third-party Ethernet protocols.	EtherNet/IP with optional DLR support Kepware Server available to support third-party Ethernet protocols.	EtherNet/IP, DF1 (RS-232), and DH-485 (RS-232). Optional communication modules for 7-inch and larger sizes to support DH+, DH-485 (RS-485), and ControlNet. Kepware Server available to support third-party Ethernet and RS-232 protocols (Modbus TCP/RTU).	EtherNet/IP, DF1 (RS-232), and DH-485 (RS-232). Kepware Server available to support third-party Ethernet and RS-232 protocols (Modbus TCP/RTU).	EtherNet/IP	EtherNet/IP, DF1, and DH-485 Third-party communications: Modbus ASCII, Modbus RTU (Master and Slave/Unsolicited), and Modbus TCP.
USB	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Programming software	Studio 5000®	FactoryTalk® View Studio for Machine Edition	FactoryTalk View Studio for Machine Edition	FactoryTalk View Studio for Machine Edition	FactoryTalk View Studio for Machine Edition	FactoryTalk View Studio for Machine Edition	Connected Components Workbench™ software
Operating system	None	Windows CE 6.0 operating system ⁽¹⁾	Windows CE 6.0 operating system ⁽¹⁾	Windows CE 6.0 operating system ⁽¹⁾	Windows CE 6.0 operating system ⁽¹⁾	Microsoft Windows Embedded Standard 7 SP1	None
Desktop access	None	Secured Desktop Access	Secured Desktop Access	Secured Desktop Access	Secured Desktop Access	None	None
User storage	512 MB RAM and 250 MB user storage	512 MB RAM and 512 MB storage	512 MB RAM and 512 MB storage	512 MB nonvolatile/256 or 512 MB RAM	512MB nonvolatile/256 MB RAM (400 and 600 only) 512 MB nonvolatile/512 MB RAM (1000 only)	4 GB DRAM/32 GB Flash	128MB RAM and 128MB storage (PV800 4-in.) 256MB RAM and 256MB storage (PV800 7-in. and PV800 10-in.)
SD Card	No	Yes	Yes	Yes	Yes	No	No
Power	AC or DC page 13	AC or DC page 15	DC page 17	AC or DC page 19 and page 23	DC page 25	DC page 27	DC page 29

(1) Windows CE 6.0 operating system supports these features: FTP Server, VNC client/server, PDF reader, Active X controls, Third-party device support

Industrial Computers

- Rockwell Automation® industrial computers and monitors are built with high-grade components that are critical to the safety and success of applications in demanding industrial environments:
 - Seamless integration with the full suite of Rockwell Software® solutions, including the Integrated Architecture® platform and FactoryTalk® View software
 - Utilities for system backup and restore, hardware analysis, and troubleshooting
 - Unit-level immediate exchange program to reduce downtime
- If you need the processing power of an industrial computer with open-desktop and modern operating-system support, choose from the following options:

■ Integrated-Display Industrial Computers	Non-Display Computers	Industrial Monitors
		
<p>Select models with and without displays for high performance applications.</p>	<p>Machine or rack-mount computers for applications where you do not need a display. The focus of these computers is on expandability.</p>	<p>Standard and Performance options for when you need a Class 1 Div 2 rated industrial monitor to enhance your system.</p>
<p>page 45</p>	<p>page 49</p>	<p>page 51</p>

PanelView 5500 Terminals



PanelView™ 5500 terminals are operator interface terminals. They monitor and control devices that are attached to ControlLogix® 5570 and CompactLogix™ 5370 series controllers over an EtherNet/IP network. Animated graphic and text displays provide operators a view into the operating state of a machine or process. Operators interact with the control system by using the touch screen or keypad of the terminal.

Features include the following:

- Tightly integrated control and design environment allows for information sharing between the terminal and the Logix platforms
- Studio 5000® environment provides one point of access for both Studio 5000 View Designer® and Studio 5000 Logix Designer® applications
- Connection to one ControlLogix 5570 or CompactLogix 5370 series controllers running V27 firmware or later
- Ethernet communication that supports Device Level Ring (DLR), linear, and star network topologies
- Supports up to 50 displays in the application
- Supports up to 500 Logix-based alarms

Terminal Features

Features	Description
High memory capacity	512 MB RAM and 250 MB user storage
Power input	DC or AC
Communication ports	Two 10/100Base-T, Auto MDI/MDI-X, built-in DLR Ethernet port for controller communication.
USB ports	Two USB high-speed 2.0 host ports (type A) support removable flash drives for external storage
Software	Studio 5000 environment provides single portal to View Designer and Logix Designer applications
Preferred controller	ControlLogix 5570 and CompactLogix 5370 series controllers

For complete technical specifications, certifications, and environmental specifications on the PanelView 5500 terminals, refer to the PanelView 5500 Specifications Technical Data, publication [2715-TD001](#).

Terminal Selection

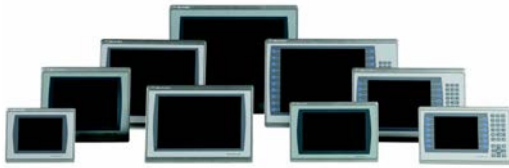
Model	Cat. No.	Color Display		Input Power	Brand Identity
		Size	Input		
700	2715-T7CD	7 in	Touch	DC	x
	2715-T7CD-B				
	2715-T7CA			AC	x
	2715-T7CA-B				
	2715-B7CD		Touch with keypad	DC	x
	2715-B7CD-B				
	2715-B7CA			AC	x
	2715-B7CA-B				
900W	2715-T9WD	9 in. (wide)	Touch	DC	x
	2715-T9WD-B				
	2715-T9WA			AC	x
	2715-T9WA-B				

Terminal Selection

Model	Cat. No.	Color Display		Input Power	Brand Identity
		Size	Input		
1000	2715-T10CD	10 in.	Touch	DC	x
	2715-T10CD-B				
	2715-T10CA			AC	x
	2715-T10CA-B				
	2715-B10CD		Touch with keypad	DC	x
	2715-B10CD-B				
	2715-B10CA			AC	x
	2715-B10CA-B				
1200W	2715-T12WD	12 in. (wide)	Touch	DC	x
	2715-T12WD-B				
	2715-T12WA			AC	x
	2715-T12WA-B				
1500	2715-T15CD	15 in.	Touch	DC	x
	2715-T15CD-B				
	2715-T15CA			AC	x
	2715-T15CA-B				
	2715-B15CD		Touch with keypad	DC	x
	2715-B15CD-B				
	2715-B15CA			AC	x
	2715-B15CA-B				
1900	2715-T19CD	19 in.	Touch	DC	x
	2715-T19CD-B				
	2715-T19CA			AC	x
	2715-T19CA-B				

For information about accessories that are available for these terminals, see page [31](#).

PanelView Plus 7 – Performance Terminals



PanelView™ Plus 7 performance terminals are operator interface terminals. They monitor and control devices attached to ControlLogix® and CompactLogix™ 5370 controllers on an EtherNet/IP network. Animated graphic and text displays provide operators a view into the operating state of a machine or process. Operators interact with the control system by using touch screen or keypad input.

Features include the following:

- FactoryTalk® View Machine Edition software provides a familiar environment for creating HMI applications
- Windows CE operating system with desktop access for configuration and third-party applications
- Connection to ControlLogix or CompactLogix 5370 controllers
- Ethernet communication that can support Device Level Ring (DLR), linear, or star network topologies
- Web browser, Microsoft file viewers, text editor, PDF viewer, remote desktop connection, and media player on the terminal desktop

Terminal Features

Features	Description
High memory capacity	512 MB RAM and 512 MB storage Approx. 80 MB nonvolatile storage for applications
Power input	DC or AC
Communication ports	Two 10/100Base-T, Auto MDI/MDI-X, built-in DLR Ethernet port for controller communication
USB ports	Two USB 2.0 high-speed host port (type A) support removable flash drives for storage One high-speed 1.0 device port (type B) supports future connection to host computer
Secure Digital (SD) card slot	One SD card slot
Operating system	All terminals run the Windows CE 6.0 operating system (OS) which provides OS functionality that meets the needs of most users: <ul style="list-style-type: none"> • FTP server • VNC client/server • PDF reader • Active X controls • Third-party device support • FactoryTalk® ViewPoint
Software	FactoryTalk® View Machine Edition Station (runtime) software, version 8.0 or later, is preloaded and activated on each terminal Single license support for FactoryTalk ViewPoint software, version 1.2 or later, gives remote users access to terminal displays via a standard web browser HMI applications are developed with FactoryTalk View Studio for Machine Edition software, which is purchased separately
Preferred controller	ControlLogix

For complete technical specifications, certifications, and environmental specifications on the PanelView Plus 7 Performance terminals, refer to the PanelView Plus 7 Performance Terminals Technical Data, publication [2711P-TD009](#).

Terminal Selection

Model	TFT Color Display			Input Power	Brand Identity	
	Cat No.	Size	Input			
700	2711P-T7C22D9P	7-in.	Touch	DC	x	
	2711P-T7C22D9P-B					
	2711P-T7C22A9P			AC	x	
	2711P-T7C22A9P-B					
	2711P-B7C22D9P		Touch with keypad	DC	DC	x
	2711P-B7C22D9P-B					
	2711P-B7C22A9P			AC	AC	x
	2711P-B7C22A9P-B					
900W	2711P-T9W22D9P	9-in. (Wide)	Touch	DC	x	
	2711P-T9W22D9P-B					
	2711P-T9W22A9P			AC	AC	x
	2711P-T9W22A9P-B					
1000	2711P-T10C22D9P	10-in.	Touch	DC	x	
	2711P-T10C22D9P-B					
	2711P-T10C22A9P			AC	AC	x
	2711P-T10C22A9P-B					
	2711P-B10C22D9P		Touch with keypad	DC	DC	x
	2711P-B10C22D9P-B					
	2711P-B10C22A9P			AC	AC	x
	2711P-B10C22A9P-B					
1200W	2711P-T12W22D9P	12-in. (Wide)	Touch	DC	x	
	2711P-T12W22D9P-B					
	2711P-T12W22A9P			AC	AC	x
	2711P-T12W22A9P-B					
1500	2711P-T15C22D9P	15-in.	Touch	DC	x	
	2711P-T15C22D9P-B					
	2711P-T15C22A9P			AC	AC	x
	2711P-T15C22A9P-B					
	2711P-B15C22D9P		Touch with keypad	DC	DC	x
	2711P-B15C22D9P-B					
	2711P-B15C22A9P			AC	AC	x
	2711P-B15C22A9P-B					
1900	2711P-T19C22D9P	19-in.	Touch	DC	x	
	2711P-T19C22D9P-B					
	2711P-T19C22A9P			AC	AC	x
	2711P-T19C22A9P-B					

For information about accessories that are available for these terminals, see page [32](#).

PanelView Plus 7 – Standard Terminals



PanelView™ Plus 7 Standard terminals are operator interface devices. They monitor and control devices that are attached to ControlLogix® 5570 and CompactLogix™ 5370 controllers on an EtherNet/IP network. Animated graphic and text displays provide operators a view into the operating state of a machine or process. Operators interact with the control system by using touch screen input.

PanelView Plus 7 Standard terminals include these features:

- Terminal functionality permits connection to 1 controller, up to 25 screens, and up to 200 alarms.
- FactoryTalk® View Machine Edition software provides a familiar environment for creating HMI applications.
- Windows CE operating system with desktop access for configuration and third-party applications.
- Ethernet communication that supports linear, star, and ring network topologies.
- PDF viewer to access PDF files that are stored on the terminal.
- More screen options including 4-in., 6-in., 7-in., 9-in., 10-in., 12-in., and 15-in. terminals.
- Widescreen option on three sizes: 4-in., 9-in., and 12-in. terminals.
- Greater screen resolution.
- Terminals are available with an Allen-Bradley® label, or with no label for customers who want to put their own labeling on the terminal.
- Certifications including Class 1, Div 2 and ATEX zones 2 and 22.

Terminal Features

Features	Description
High memory capacity	512 MB RAM and 512 MB storage Approx. 80 MB nonvolatile storage for applications
Power input	DC
Communication ports	Single 10/100Base-T, Auto MDI/MDI-X, Ethernet port for controller communication, or DLR
USB ports	One USB 2.0 high-speed host port (type A) support removal flash drives for storage One high-speed 1.0 device port (type B) supports connection to host computer
Secure Digital (SD) card slot	One high-speed 1.0 device port (type B) supports future connection to host computer
Operating system	All terminals run the Windows CE 6.0 operating system (OS) which provides OS functionality that meets the needs of most users: <ul style="list-style-type: none"> • FTP server • VNC client/server • PDF reader • Active X controls • Third-party device support • FactoryTalk® ViewPoint
Software	FactoryTalk® View Machine Edition Station (runtime) software, version 7.0 or later, is preloaded and activated on each terminal Single license support for FactoryTalk ViewPoint software, version 1.2 or later, gives remote users access to terminal displays via a standard web browser HMI applications are developed with FactoryTalk View Studio for Machine Edition software, which is purchased separately
Preferred controller	CompactLogix

For complete technical specifications, certifications, and environmental specifications on the PanelView Plus 7 Standard terminals, refer to the PanelView Plus 7 Standard Terminals Technical Data, publication [2711P-TD008](#).

Terminal Selection

Model	Color Touch Display		Brand Identity	DLR Support
	Cat. No.	Size		
400W	2711P-T4W21D8S	4 in. (Wide)	x	
	2711P-T4W21D8S-B			
	2711P-T4W22D8S		x	x
	2711P-T4W22D8S-B			x
600	2711P-T6C21D8S	6 in.	x	
	2711P-T6C21D8S-B			
	2711P-T6C22D8S		x	x
	2711P-T6C22D8S-B			x
700	2711P-T7C21D8S	7 in.	x	
	2711P-T7C21D8S-B			
	2711P-T7C22D8S		x	x
	2711P-T7C22D8S-B			x
900W	2711P-T9W21D8S	9 in. (Wide)	x	
	2711P-T9W21D8S-B			
	2711P-T9W22D8S		x	x
	2711P-T9W22D8S-B			x
1000	2711P-T10C21D8S	10 in.	x	
	2711P-T10C21D8S-B			
	2711P-T10C22D8S		x	x
	2711P-T10C22D8S-B			x
1200W	2711P-T12W21D8S	12 in. (Wide)	x	
	2711P-T12W21D8S-B			
	2711P-T12W22D8S		x	x
	2711P-T12W22D8S-B			x
1500	2711P-T15C21D8S	15 in.	x	
	2711P-T15C21D8S-B			
	2711P-T15C22D8S		x	x
	2711P-T15C22D8S-B			x

For information about accessories that are available for these terminals, see page [33](#).