# Hardware User's Guide

# 10" / 12" QuickPanel View

IC754VBI10MTD IC754VGI10MTD IC754VSI10MTD IC754VBI12CTD IC754VGI12CTD IC754VSI12CTD

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The 10" and 12" QuickPanel View models have been tested and found to meet or exceed the requirements of U.S. (47 CFR 15), Canadian (ICES-003), Australian (AS/NZS 3548) and European (EN55022) regulations for Class A digital devices when installed in accordance with guidelines noted in this manual.

The FCC requires the following note to be published according to FCC guidelines:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



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This Class A digital apparatus complies with Canadian ICES-003.

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1. EQUIPMENT LABELED WITH REFERENCE TO CLASS I, DIVISION 2, GROUPS A, B, C, and D, HAZARDOUS LOCATIONS IS SUITABLE FOR USE IN CLASS I, DIVISION 2, GROUPS A, B, C, D, OR NON-HAZARDOUS LOCATIONS ONLY.

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For a complete list of agency qualifications, please refer to appendix A1.

We want to hear from you. If you have any comments, questions, or suggestions about our documentation, send them to the following email address: doc@gefanuc.com.



# Contents

1	Welcome         Getting Started         Basic Setup         QuickPanel View Runtime Setup         Startup         Shutdown         Panel Cutout         Technical Support	2 3 3 4 4
2	Overview QuickPanel View Hardware Layout Diagram Block Diagram QuickPanel View Software Windows CE.NET Working with Windows CE Pocket Internet Explorer Backup Storage Manager System Information Copy Project to Flash Card Emulate PPC HTTP File Transfer Utility	8 9 10 10 11 13 14 14 15 15
3	Detailed Operation Touch Screen Display Touch Screen Soft Input panel Communication Port COM1 Working with the COM port CF Port Ethernet Ethernet Expansion Bus DIP Switches Memory	22 25 27 27 28 32 33 37 38



Flash Memory	0
SRAM Memory	1
DRAM Memory	1
Boot Loader ROM	2
Memory Expansion Slot	2
Other Subsystems	
Power Management	
Battery Backup	3
Real-time Clock4	4
A1 Design Specifications 4	7
Physical	-
DC Power	
Display	
Front Panel	
Touch Screen	
CPU	
Memory	
Memory Expansion Slot	
Expansion Ports	
Communication Ports	
Environmental	
Battery	
Calendar/Clock	
Agency Qualifications	
A2 Troubleshooting 5	3
Power up	3
Pocket Internet Explorer5	3
ndex 5	5

# Welcome

Congratulations on your purchase of a QuickPanel View, the most advanced compact HMI computer available. The QuickPanel View is available in different configurations to suit your requirements. Equally at home in a networked environment or as a stand-alone unit, the QuickPanel View is the ideal solution for factory floor HMI.

Powered by Microsoft Windows CE.NET<sup>™</sup>, today's embedded operating system of choice, the QuickPanel View provides a fast track for application program development. The commonality with other versions of Windows simplifies porting your existing program code. Another benefit of Windows CE is the familiarity of the user interface, shortening the learning curve for operators and developers alike. The availability of third-party application software makes this operating system even more attractive.

The 10"/12" QuickPanel View is an all-in-one microcomputer designed for maximum flexibility. The design, based on an advanced Intel<sup>®</sup> microprocessor, brings together a high-resolution touch-screen operator interface with a variety of I/O options. With many standard ports and expansion busses from which to choose, you can connect to most industrial equipment.

The QuickPanel View is equipped with several memory types to satisfy even the most demanding applications. A 32MB section of DRAM is split between the operating system, an object store, and application memory. A 32MB section of non-volatile FLASH memory, functioning as a virtual hard drive, is divided equally between the operating system and persistent storage for application programs. The retentive memory consists of 512 KB of battery-backed SRAM for data storage, ensuring your valuable data will never be lost, even during a power failure.

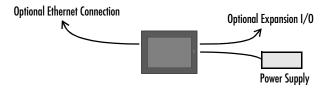
The many features of the QuickPanel View make it an obvious choice for a world of applications. Your smart choice will provide reliable operation for years to come.



# GETTING STARTED

# **Basic Setup**

Your 10" or 12" QuickPanel View is shipped ready for use after a few configuration steps. To power up all you need to do is connect a DC power supply via the supplied quick-connect plug. Depending on your application, you may also want to configure communications ports (see page 27) and expansion adapters (see page 37).



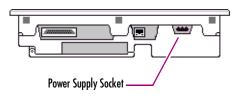


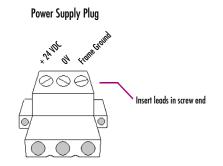
**Caution - Electrical Shock Hazard:** To avoid personal injury or damage to equipment, ensure that the DC supply is disconnected from power and that the leads are not energized before attaching them to the unit's power supply plug.

#### To connect a DC power supply

- 1. Using the three screw terminals shown in the following diagram, attach a 24VDC, 48W power supply to the plug supplied with the QuickPanel View (see specifications on page 47 for conductor size requirements).
- 2. Insert the plug into the power supply socket and securely tighten the attaching screws.

Bottom





# QuickPanel View Runtime Setup

To download a Machine Edition application to a QuickPanel View unit, you must set up a data link between your development workstation and the QuickPanel unit. For more information, see "Ethernet" (page 33) and look up "Downloading a Machine Edition Project" in the Machine Edition online help.

# Startup

When you first start up the QuickPanel View, a few configuration steps are necessary.

#### To start the QuickPanel View

#### 1. Apply DC power to the QuickPanel View.

Once power is applied, the QuickPanel View begins initializing. The first thing to appear on the display is the splash screen.



2. To skip running any programs included in the StartUp folder, tap **Don't run StartUp programs**.

The splash screen disappears automatically after about 5 seconds. The Windows CE desktop then becomes visible.

- 3. Tap 都 Start, point to 🎶 Settings and then tap 💁 Control Panel.
- 4. In the Control Panel, double-tap 🕵 Display to configure the LCD display (see page 20).
- 5. In the Control Panel, double-tap 길 Stylus to configure the touch screen (see page 22).
- 6. In the Control Panel, double-tap 🧬 Date and Time to configure the system clock (see page 44).
- 7. In the Control Panel, double-tap S Network and Dial-up Connections to configure network settings (see page 34).
- 8. On the desktop, double-tap 🕮 Backup to save any new settings through a power cycle (see page 13).



## Shutdown

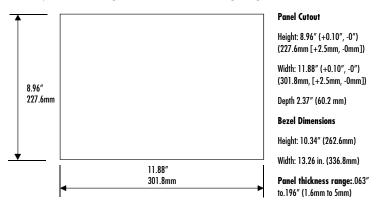
There are no specific dangers associated with a power failure or other unplanned shutdown of the QuickPanel View. In general, programs are retained in FLASH memory and user data can be retained in battery-backed SRAM. Some operating system settings are retained only with user intervention, so in order to carry out a graceful shutdown of the QuickPanel View, we recommend you perform the following procedure.

#### To shut down the QuickPanel View

- 1. Quit any programs that are running and wait for all file operations to complete (no busy or wait cursor displays).
- 2. To save new configuration settings or Windows desktop changes, double-tap Backup on the desktop (see page 13). When backup is complete, tap OK. Unsaved changes are lost when power is removed.
- 3. Remove AC power from the 24VDC supply.

## Panel Cutout

For enclosure mounting, cut an opening in the panel according to the specifications given with the following diagram.

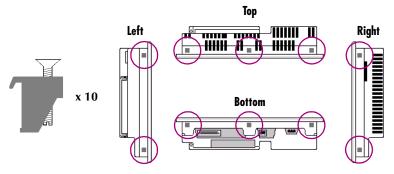


#### Notes:

- For compliance to NEMA 4, 4x, and 12 qualification, the unit must be mounted in a comparably NEMA rated (IP56 equivalent) panel or enclosure.
- For compliance to ATEX agency qualification, the unit must be mounted in an IP66 panel or enclosure.
- To avoid gasket degradation, limit repeated insertions or removals of the unit and retightening of the mounting clips. For full protection, always use a fresh gasket.

The unit will **not** fit through this cutout with a CF card inserted in the port, with any cables connected, or with the power supply plug inserted in the socket.

To secure the QuickPanel View to a panel, use the 10 included mounting clamps. They hook into openings located on the top, bottom, and sides of the housing.

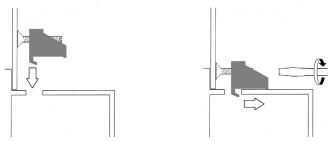


#### To mount the QuickPanel View in a panel

- 1. Insert the unit into the panel cutout (without a CF card in the CF port).
- 2. Insert the hook of each mounting clamp into the housing openings as shown below.
- 3. Ensure that the gasket is properly seated in the bezel channel and firmly tighten the clamp screws.

**Note:** The torque range for the mounting clamp screws is 2.6-4.4 inch/lbs (0.3-0.5 Nm)

The mounting clamps hold the unit in place by tension alone. No drilling is required.



Do not damage the gasket attached to the back of the QuickPanel View's bezel. This gasket prevents shock hazards and damage caused by liquids accidentally entering the unit after installation.



# **TECHNICAL SUPPORT**

If you have technical problems that cannot be resolved with the information in this guide, please contact us by telephone, fax, or email; or visit one of the links on our website:

Telephone: 1-800-GE-FANUC (1-800-433-2682)

Fax: (780) 420-2049

Email: support@gefanuc.com

Comments about our manuals or help: doc@gefanuc.com

**Web:** www.gefanuc.com/support (to locate the Technical Advisor page and a listing of supported devices (CF cards, etc.) click on the Operator Interface Product Family link, or choose QuickPanel View from the Product List).

For GE Fanuc support, you can also visit:

http://iglobalcare.gefanucautomation.com.

# Overview

This chapter provides introductory information on the 10" and 12" QuickPanel View hardware and software, with descriptive procedures for completing some of the most common tasks you will encounter.

In this chapter:

Layout Diagram	8
Block Diagram	
Windows CE.NET	10
Working with Windows CE	10
To place a program in the Start menu	
Pocket Internet Explorer	11
To establish a dial-up connection To configure a Proxy server	11
Backup	13
To run the Backup program	13
Storage Manager	
System Information	
To run the System Information program	
Copy Project to Flash Card	
To copy a Machine Edition project onto a CF card To update a Machine Edition project	15
Emulate PPC	15
To use Emulate PPC during an ActiveSync session	15
HTTP File Transfer Utility	
To use the HTTP utility	16

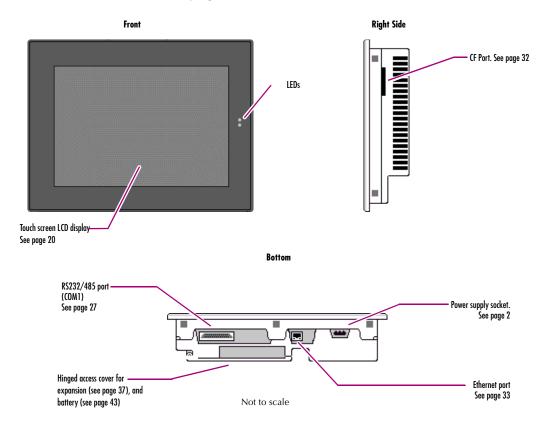


# QUICKPANEL VIEW HARDWARE

## Layout Diagram

In addition to the primary touch screen interface, the 10" or 12" QuickPanel View supports a variety of communication ports including an expansion bus to allow great flexibility in application. The following diagram shows the physical layout of the QuickPanel View and the locations of ports and connections

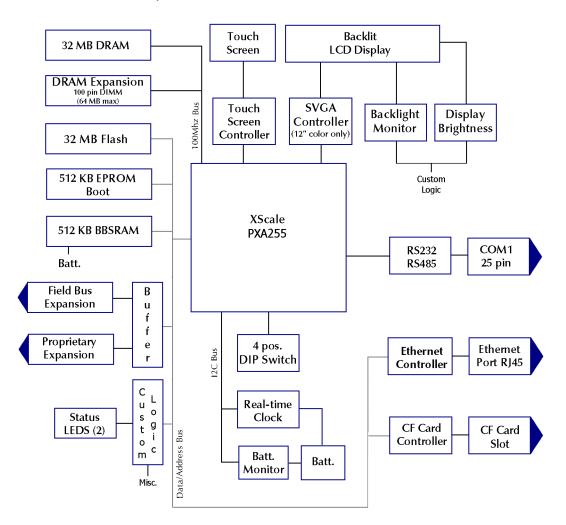
The bottom LED is green when power is applied and amber if both backlights fail (IC754VxI10MTD has one backlight);<sup>1</sup> the top LED is tricolor (green, red, or amber) and programmable.



<sup>1</sup> Backlights are not field replaceable.

# Block Diagram

The 10" and 12" QuickPanel View hardware is based on the Intel<sup>®</sup> XScale<sup>™</sup> PXA255 microprocessor, and employs large-scale integration to provide high performance with a small footprint. The following block diagram illustrates the major functional hardware areas and the interfaces between them.



# QUICKPANEL VIEW SOFTWARE

## Windows CE.NET

Microsoft Windows CE.NET<sup>™</sup> is the operating system for the QuickPanel View. It is a full 32-bit O/S with a graphical user interface. This operating system is finding widespread application in hand-held PCs and embedded HMIs, such as the QuickPanel View. The familiar look and feel of Windows CE shortens the learning curve for users having experience with Windows 95/98/NT/2000/ME/XP. From a software developer's perspective, the CE environment is a subset of the WIN32 application programming interface, simplifying the porting of existing software from other versions of Windows.

Stored in a 16 MB block of FLASH memory, the QuickPanel View operating system is copied to DRAM for execution. The operating system starts automatically following a power-up or reset of the QuickPanel View.

For more on Windows CE visit www.microsoft.com/windows/embedded/ce.

### Working with Windows CE

When working with Windows CE on the QuickPanel View, user input is achieved via the touch screen with a stylus or other suitable pointing device. The Soft Input Panel (SIP) is used for character and numeric entry, or for entering keyboard shortcuts. For more information on the Soft Input Panel, including a list of keyboard shortcuts, see page 25.

#### To place a program in the 🏞 Start menu

- 1. Start 🔍 Windows Explorer.
- 2. Navigate to the program you want to place in the 🏞 Start menu.
- 3. Tap the program's icon to select it.
- 4. From the Edit menu, choose Copy.
- 5. Navigate to the 'Windows' Programs' folder.
- 6. From the Edit menu, choose Paste Shortcut.
- 7. Run the Backup program to retain the change through a power cycle (see page 13).

# Pocket Internet Explorer

Microsoft's Pocket Internet Explorer is a full-featured browser that is fully integrated with the Windows CE operating system. This browser allows you to connect with an internet service provider, view web pages and download from FTP sites.

Pocket Internet Explorer supports JScript. Java support can be added from thirdparty sources. Pocket Internet Explorer does not support VBScript; however, VBScript components are included in the operating system and may be used by third-party applications such as CIMPLICITY Machine Edition.

A connection can be established over an Ethernet network (default) or a dial-up connection. The Ethernet or dial-up connection must first be properly configured.

#### To establish a dial-up connection

- 1. Start 🔗 Pocket Internet Explorer.
- 2. From the View menu, choose Options.

The Options dialog box appears.



- 3. On the Auto Dial tab, select the Use AutoDial check box.
- 4. Choose either the default or a user-defined connection from the list.
- 5. Tap OK.
- 6. Run the Backup program to save the settings through a power cycle (see page 13).

#### To configure a Proxy server

- 1. Start 🔗 Pocket Internet Explorer.
- 2. From the View menu, choose Options.



The **Options** dialog box appears.



- 3. On the Proxy Server tab, select the Use Proxy Server check box.
- 4. In the Proxy Server box, type the URL of your proxy server (see your ISP or network administrator).
- 5. In the Port box, type the server's port number for HTTP access.
- 6. Select the Bypass Proxy for Local Addresses check box to connect directly to sites like your intranet.
- 7. Tap **OK**.
- 8. Run the Backup program to retain the new settings through a power cycle (see page 13).

# Backup

Backup is a utility that saves any changes made to the Windows Registry or Desktop. This utility is required because, unlike typical handheld Windows CE platforms, the QuickPanel View is not battery powered. Specifically, the Backup command does the following:

- The Windows CE registry (including any control panel settings) is stored in the Flash registry
- Any changes (additions) made to the 'Windows' subtree of the file system are stored in the user block of FLASH memory.

The **Backup** program should be run whenever configuration changes are made to the operating system or installed applications, and prior to shutting down the QuickPanel View.

#### To run the Backup program

1. On the desktop, double-tap **Backup**.

The Backup dialog box appears.



#### 2. Tap **OK**.

**Caution:** Ensure that backup is complete (i.e., no busy or wait cursor displays) before disconnecting power.

## To reboot the system

- 1. Run the Backup program to retain any changes.
- 2. Tap 🐉 Start, point to 💼 Programs, then the 🗁 System folder, and tap 😍 Reboot .

A confirmation dialog box appears.

Reboot		$\times$
Are you sure you	want to reb	boot?
<u>Y</u> es	<u>N</u> o	

3. Tap "Yes"

The operating system restarts.



# Storage Manager

Use Storage Manager to repair or format lost or corrupted data volumes. Storage Manager can repair data volumes existing either in Compact Flash (CF) or batterybacked SRAM (BBSRAM). Data volumes existing in the main flash file system of the QuickPanel may not be repaired by Storage Manager.

Storage Manager, accessed from the Control Panels folder, is a Microsoft product for which on-line help is available.

Storage Properti	ies	? OK ×
Storage Manager		
Store Info: —		Partitions:
DSK1: PCMCIA/Co	ompact Fla 👻	PARTOO *
Capacity: 0	.00 B	
Unallocated: 0	.00 B	
Sector Size: 0	.00 B	New Del
<u>E</u> ormat	Dismount	
		Properties

# System Information

System Information is a custom utility that displays a splash screen with the following information:

- Operating System version. For example, 'Windows CE.NET'.
- Platform. Identifies the host hardware, its version and build number.

Tapping **More Info** on the splash screen opens the Advanced System Information window, which provides information such as hardware version and serial number, CPU type and specifications, etc. This information can be especially useful if you are contacting GE Fanuc Support.

#### To run the System Information program

1. On the desktop, double-tap 🕼 System Information.

The System Information splash screen appears.



#### 2. Tap More Info to open the Advanced System Information window, or tap Close to continue.

Network information alone can be viewed by double-tapping the **LAN** icon displayed on the taskbar for each connection.

# Copy Project to Flash Card

RestorePCCard is a custom utility for transferring CIMPLICITY<sup>TM</sup> Machine Edition<sup>TM</sup> Projects between compatible QuickPanel View units via CF cards.

**Caution:** Ensure that the copy or update operation is complete (i.e., no busy or wait cursor displays) before disconnecting power.

#### To copy a Machine Edition project onto a CF card

- 1. Ensure there is a blank CF card in the in the CF port.
- 2. Double tap the Copy Project to Flash Card icon on the desktop.
- 3. Tap Yes when the Proceed with Copy to CF Card confirmation dialog box appears.

The system copies the project onto the blank CF Card.

#### To update a Machine Edition project

You can update a CIMPLICITY Machine Edition application currently stored on the QuickPanel View with a revision stored on a CF Card.

- 1. Insert the CF Card containing an upgraded version of the Machine Edition project in the CF port.
- 2. Reboot the machine (see page 13).

When a valid project is found on the CF card, you will be prompted to install the project or skip it. Tap **OK** to install or **Cancel** to skip the install and continue to reboot. If an invalid project is found, an error message appears in a dialog box. This dialog box must be closed before reboot will continue.

3. Remove the CF Card from the slot.

#### Emulate PPC

Emulate PPC is a utility that allows the QuickPanel to emulate a Pocket PC 2003 during an ActiveSync session, enabling the download of third-party Pocket PC 2003 software.

#### To use Emulate PPC during an ActiveSync session

1. Start 🔍 Windows Explorer, double tap 🗁 Windows, then double tap 📴 EmulPPC.

The Emulate PPC dialog box appears.



 Start the ActiveSync session. When installation of third-party software is complete, close the dialog box to deactivate Emulate PPC.

# **HTTP File Transfer Utility**

The HTTP File Transfer Utility (HFTU) is a small, standalone command line program that allows you to send and delete files to and from computers over a network. The HFTU uses the HTTP protocol, so you can even send files to computers over the Internet.

Run the HTTP utility from a command line prompt, from a batch file (.BAT) or as an application call in a script. The HTTP utility is an executable (.EXE) file included in the 10" and 12" QuickPanel View's operating system.

The HTTP utility currently supports two file transfer commands: COPY and DELETE.

**Note:** In order to function, the HTTP File Transfer utility requires both computers to have web servers that support PUT functionality. (Most web servers support PUT, including the CIMPLICITY Machine Edition web server installed with the runtimes for View and Logic Developer - PC.) If in doubt, check the documentation for your web server.

#### To use the HTTP utility

1. From the **X** Start menu, choose 📄 Programs, then choose 🏙 Command Prompt.

The **Command Line** editor appears.

Eile	<u>E</u> dit	<u>H</u> elp				×
Pock	et CMD	v 4.1	D			
/>						
						-
•				]		

- 2. Type commands as required.
- 3. Use the following syntax:

#### **HTTPUTIL COPY source destination**

Where "source" is the URL of the source file, and "destination" is the URL of the destination file. For example:

HTTPUTIL COPY \MyFile.txt http://MyServer/webfiles/MyFileBACKUP.txt

Copies a file called MyFile.txt on drive C: of the local computer to the webfiles folder under the web server at //MyServer. Note that you can rename a file as you copy it.

#### HTTPUTIL DELETE url

Where "url" is the remote URL of the file you want to delete. This URL must use the "//" or "HTTP://" syntax. For example:

HTTPUTIL DELETE http://MyServer/webfiles/MyFileBACKUP.txt

Deletes a file called MyFileBACKUP.txt from the webfiles directory under the web server at HTTP://MyServer.





# **Detailed Operation**

In this chapter:

Touch Screen Display
To adjust the display brightness (color model only)
To adjust the display contrast (monochrome model only)21
To configure backlight auto turn off
To calibrate the touch screen
To set the double-tap sensitivity
Soft Input panel
To show/hide the Soft Input Panel
Keyboard Shortcuts
To display the Soft Input Panel icon in the system tray
Communication Port
To add a new remote networking connection
To add a virtual private network or PPP over Ethernet connection 29
To change the default device properties
To change the default TCP/IP settings
CF Port
Ethernet
To set an IP address
To set up access to a Windows network
To access a remote resource on a Windows network
Expansion Bus
DIP Switches
To configure startup behavior
Memory
To add Flash memory with a CF Card40
To change the DRAM memory allocation
To install additional DRAM
Other Subsystems
To access the Power Properties control panel
To remove the internal battery
To set the real-time clock
To display the time on the taskbar

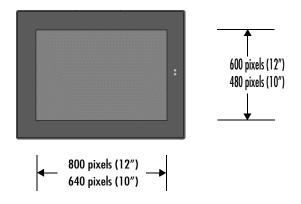


# TOUCH SCREEN DISPLAY

The QuickPanel View has an integrated flat-panel display providing either color or monochrome, depending on model. The color model, IC754VxI12CTD, incorporates a backlit, 12.1" diagonal display employing active TFT technology. The monochrome model, IC754VxI10MTD, incorporates a backlit, 10.4" diagonal display employing passive technology.

The color display provides a resolution of 800 x 600 pixels and 32,768 colors, while the monochrome display provides a resolution of 640 x 480 pixels and 256 shades of gray.

Both displays have a backlight timer feature allowing the backlight to turn off automatically and extend its life.



#### To adjust the display brightness (color model only)

1. In the Control Panel, double-tap 🕵 Display and choose the Brightness tab.

The Brightness dialog box appears.

Display Properties	? OK ×
Background Appearance Backlight	Brightness
Brightness:	
1	Ċ.
1	— ļ
Lowest	Highest
Note: Run Backup after changir in order for the changes to be	

- 2. Drag the Brightness slider between Lowest and Highest.
- 3. Tap **OK** to exit the control panel.
- 4. Run the Backup program to save settings through a power cycle (see page 13).

#### To adjust the display contrast (monochrome model only)

1. In the Control Panel, double-tap 🕵 Display and choose the Contrast tab.

The **Contrast** dialog box appears.

Display Properties	? 0K ×
Background Appearance Backlight	Contrast
Contrast:	
<u> </u>	
1	Ļ
Lowest	Highest
Note: Run Backup after changing in order for the changes to be sa	

- 2. Drag the Contrast slider between Lowest and Highest.
- 3. Tap **OK** to exit the control panel.
- 4. Run the Backup program to save settings through a power cycle (see page 13).

#### To configure backlight auto turn off

1. In the Control Panel, double-tap 🕵 Display and choose the Backlight tab.

The Backlight dialog box appears.



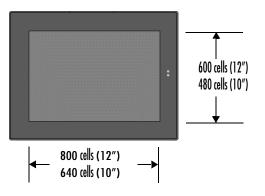
- 2. Select Auto turn off backlight while on external power.
- 3. Tap **OK** to exit the control panel.
- 4. Run the Backup program to save settings through a power cycle (see page 13).

**Note:** Backlight failure notification displays in this dialog box if one of the backlights fails. If both backlights fail, the bottom LED flashes amber and the screen is blank.



# Touch Screen

The QuickPanel View display is coupled to a resistive touch panel with 12-bit resolution. When the QuickPanel View is properly calibrated, this translates into a grid of touch cells on the face of the display. Although you can use your finger to actuate the touch screen, use of a blunt stylus is recommended.



#### To calibrate the touch screen

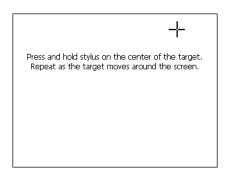
1. In the Control Panel, double-tap 🌽 Stylus.

The Stylus Properties dialog box appears.



- 2. Choose the Calibration tab
- 3. Tap the Recalibrate button.

A cross hair target is displayed.



- 4. Follow the directions given to calibrate the touch screen.
- 5. Tap the screen to preserve the new setting or wait out the time limit to revert to previous settings.

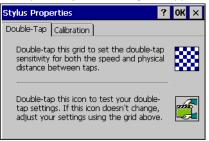
New calibration settings have been measured.
Tap the screen to register saved data. Wait to cancel and keep the current setting.
Time limit : 2 sec

6. Run the Backup program to save the settings through a power cycle (see page 13).

#### To set the double-tap sensitivity

1. In the Control Panel, double-tap **[]** Stylus.

The Stylus Properties dialog box appears.





- 2. Choose the **Double-Tap** tab.
- 3. Double-tap the grid to enter a setting.
- 4. Double-tap the test icon to check the setting.

If the test icon doesn't change when you double-tap it, double-tap the grid again.

- 5. Tap **OK** to finish.
- 6. Run the Backup program to save the settings through a power cycle (see page 13).



# SOFT INPUT PANEL

The Soft Input Panel (SIP) is a software emulation keyboard that can be used as an operator data input device.

Input Panel													
Esc 1	ιŢ	2	3	4	5	6	7	8	9	0	-	=	+
Tab		7	w	e	r	t	у	u	i	0	р	]	]
CAP		a	s	d	f	g	h	j	k	Ι	];	'	J
Shift	: [	z	X	c	Īv	þ	] n	] m	, I	].	1		<b>↓</b>
Ctl	Α	lt	`	1						↓	Ť	+	-

An icon in the system tray lets you view or hide the SIP.



#### To show/hide the Soft Input Panel

#### • On the system tray of the task bar, double-tap the 🎹 icon. The Soft Input Panel appears/disappears.

**Note:** When the SIP is visible, it can be dragged around the screen by its title bar to reveal different parts of the screen that would be obstructed from view by the SIP.

#### Using SHIFT, CAP, CTRL, and ALT on the Soft Input Panel

Uppercase characters are accessed by pressing the SHIFT key once. This is equivalent to holding down the SHIFT key on a conventional keyboard. The SHIFT key is active while the next key is pressed then reverts back to its unselected state. The CAP key does the same thing as SHIFT but does not revert to lower case after another key is pressed. Rather, the Soft Input Panel remains in the Uppercase mode until the CAP key is pressed again. The CTRL and ALT keys behave the same as the SHIFT key.



#### **Keyboard Shortcuts**

You can enter the following keyboard shortcuts using the SIP:

Shortcut	Action
CTRL+ESC	Opens the Windows CE <b>Start</b> menu. Use arrow keys to select a program and ENTER to run it.
ALT+TAB	Starts the Task Manager. Use it to quit unresponsive programs.
CTRL+ALT+=	Starts the touch screen calibration.
SPACEBAR	Equivalent to single-tap.
ENTER	Equivalent to double-tap. In a dialog box, equivalent to <b>OK</b> .
TAB	In a dialog box, select next control.
SHIFT+TAB	In a dialog box, select previous control.
CTRL+TAB	In a tabbed dialog box, open the next tab.
ESC	Close dialog box, discarding changes.
ARROW KEYS	In a dialog box, select controls or items from a list box.

#### To display the 🛲 Soft Input Panel icon in the system tray

1. In the Control Panel, double-tap 宗 Input Panel.

The Input Panel Properties dialog box appears.

Input Panel Properties	? 0K ×
Input Panel	
Current input method:	
EKeyboard	3
Options	
Allow applications to change the inpu	t panel state
Show Input Panel in system tray	

- 2. Select or clear the Allow applications to change the input panel state check box.
- 3. Select or clear the Show Input Panel in system tray check box.
- 4. Tap **OK**.
- 5. Run the Backup program to retain the new setting through a power cycle (see page 13).

# COMMUNICATION PORT

The QuickPanel View has one serial data communication port, COM1.

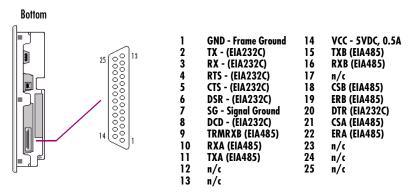
# COM1

The COM1 port is a general purpose bidirectional serial data channel that supports the EIA232C and EIA485 electrical standards. The COM1 port can be accessed and configured:

- as a direct or dial-up remote networking connection.
- from a user-created application program.

A connection can be configured to reside on a network supporting a TCP/IP protocol.

A DB25S (female) connector, mounted on the bottom of the enclosure, provides standard signals as described in the following table.



#### Notes:

- Pin 14 is fused with a field-replaceable, 1.0A fast-blow fuse.
- Twisted-pair cable is required when using the EIA485 connections.
- When using in EIA485 mode, RXA/RXB termination should be used if the QuickPanel View is the last node on the 485 network. An RX termination resistor is included, and used by connecting pin 9 to pin 10.
- When using in EIA485 mode, pin 7 (ground) should not be used.



# Working with the COM port

#### To add a new remote networking connection

3

1. From the 🂦 Start menu, tap 🞐 Settings and then 🥯 Network and Dial-up Connections.

The **Connection** window appears.

2. Double-tap 💁 Make New Connection.

The Make New Connection wizard appears.

Make New Connection
Type a name for the connection:
My Connection
Select the connection type:
Dial-Up Connection
O Direct Connection
🔿 Virtual Private Network
PPP over Ethernet [PPPoE]
< <u>B</u> ack <u>N</u> ext >

- 3. Type a name for the new connection.
- 4. Choose a connection type.
- 5. Tap Next.

The Modem or Device dialog box appears, depending on the connection type.

Modem ×		Device ×
My Connection		My Connection
Select a modem:	Ar	Select a device:
Hayes Compatible on COM1:	or	Berial Cable on COM1:
Configure		Configure
TCP/IP Settings Security Settings		TCP/IP Settings Security Settings
< <u>B</u> ack <u>N</u> ext >		< <u>B</u> ack Finish

From the list, choose the device or modem you want to use. (If a Modem or Serial CF Card is inserted, it will be available in the device list.)

You can **Configure** your device or **TCP/IP Settings** at this time if you wish.

7. Tap Finish for direct connection (Device dialog box) or Next for dial-up (Modem dialog box).

If you are adding a dial-up connection the following dialog box appears.

Phone Number		×
My Connection		
Country/region code:	1	
Area code:	425	
Phone number: Force long distance Force local		
	< <u>B</u> ack	Finish

- 8. Type the destination Country/region code, Area code, and Phone number in the appropriate boxes.
- 9. Select or clear the Force Long Distance or Force Local check boxes.
- 10. Tap Finish.
- 11. Run the Backup program to save settings through a power cycle (see page 13).

#### To add a virtual private network or PPP over Ethernet connection

1. From the 🂦 Start menu, tap 🞐 Settings and then 🥸 Network and Dial-up Connections.

The **Connection** window appears.

2. Double-tap 💆 Make New Connection.

The Make New Connection wizard appears.



- 3. Type a name for the new connection.
- 4. Choose a connection type.
- 5. Tap Next.



The **VPN** or **PPPoE** Connection window appears, depending on the connection type.

Connection ×		Connection	×
My Connection		My Connection	
Host name or IP address:	or	PPPoE Service Name (blank for any service):	
TCP/IP Settings Security Settings		TCP/IP Settings Security Settings.	
< <u>B</u> ack Finish		< <u>B</u> ack Finish	

6. Enter the Host Name or IP address for a VPN connection, or a PPPoE Service Name for a PPPoE connection.

You can configure your TCP/IP Settings at this time if you wish.

- 7. Tap Finish.
- 8. Run the Backup program to save settings through a power cycle (see page 13).

#### To change the default device properties

3

1. From either the Device or Modem dialog box, tap Configure.

The **Device Properties** dialog box appears.

Device Prope	erties	?	' OK ×
Port Settings	Call Options		
Baud Rate:	19200 🔽	<u>D</u> ata Bits:	8 🔻
Parity:	None 💌	<u>S</u> top	1 💌
Elow Control:	Hardware 💌		
Use terminal window before dialing			
Use terminal window after dialing			
📃 <u>M</u> anual Dia	al		

- 2. In the Port Settings tab, choose settings for all connection preferences.
- 3. If the connection is for terminal emulation, select or clear the terminal-related check boxes.

You can use the QuickPanel View to emulate a terminal attached via a modem link (Hayes compatible) to COM1. A terminal emulation definition is added as a unique session.

#### To change the default TCP/IP settings

- 1. Obtain correct TCP/IP settings from your network administrator.
- 2. From either the Device, Modem, PPPoE Connection, or VPN Connection dialog box, tap TCP/IP Settings.

The **TCP/IP Settings** dialog box appears.

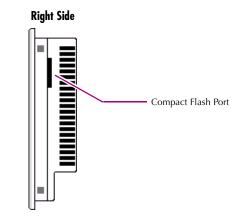
TCP/IP	Settings	OK ×
General	Name Servers	
37	My Connection 2	
Vse	server-assigned IP address	
	· · · ·	
🗌 Use	Slip	
🔽 Use	software compression	
🔽 Use	IP header compression	

- 3. Clear the Use server-assigned IP address check box.
- 4. Enter the <u>TCP/IP</u> settings from your network administrator and then click OK.
- 5. Run the Backup program to save settings through a power cycle (see page 13).



# CF PORT

To enhance the QuickPanel View's capabilities with additional flash memory, the unit is equipped with a CF (Compact Flash) Type 2 port on its side.



A CF card is inserted in this port with the card's front facing the back of the unit (the narrow side slot on the card should be toward the bottom).

**Note:** For full protection from electrostatic discharge, peel off the paper label on the side of the CF card facing the bezel to allow contact between the card and the internal frame ground contacts on the CF connector.

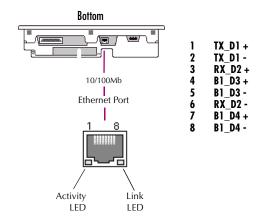
The card should slide in easily-to avoid damage, do not force it.

The Copy Project to Flash Card utility (see page 15) lets you transfer CIMPLICITY Machine Edition projects between QuickPanel View units via CF Cards.

No Compact Flash cards are supplied with the QuickPanel View. A list of cards (and other devices) that have been tested and are compatible can be found by visiting www.gefanuc.com/support and choosing QuickPanel View from the product list or by selecting the Operator Interface Product Family link.

# ETHERNET

The QuickPanel View is equipped an auto-negotiate, full or half duplex Ethernet port (IEEE802.3). You can connect an Ethernet network cable (unshielded, twisted pair, UTP CAT 5) to the unit via the RJ45 connector on the bottom of the enclosure. LED indicators on the port indicate channel status. Access to the port is possible either by Windows CE network communications, or by your custom application. The following diagram shows the location, orientation, and pin out of the Ethernet port.



There are two methods for setting an IP address on the QuickPanel View:

 DHCP (Dynamic Host Configuration Protocol). This is the default method that is carried out automatically.

**Note:** There must be a DHCP server on the connected network for a valid IP address to be assigned. Contact your network administrator to ensure correct DHCP server configuration.

 Manual method. Using this method, you uniquely specify the numeric addresses for the QuickPanel View, the Subnet Mask, and the Default Gateway (if applicable).

**Note:** Use a crossover cable to connect the QuickPanel View to a PC directly; when connecting to a LAN HUB, use a straight through cable. Contact your network administrator if you require further information.



#### To set an IP address

3

1. From the Control Panel, tap 🛸 Network and Dial-up Connections.

The **Connection** window appears.

	Connectio	n 📇 🗙	đ	? ×
	-	<u>7</u>	<b>7</b>	
	Make New Connection	My Connection	LAN1	
2.	Select a	nection and choose	Properties.	

The Built-in Ethernet Port Settings dialog box appears.

'Built In 10/100 Ethernet' Settings				
IP Address	Name Servers			
computer. does not a IP addresse administrat	ess can be Ily assigned to this If your network utomatically assign as, ask your network or for an address, ype it in the space	Optain an IP add     Optain an IP add     Opecify an IP add     IP Address:     Sybnet Mask:     Default Gateway:	:	

- 3. Select a method:
  - Obtain an IP address via DHCP (automatic).
  - Specify an IP address (manual).
- Enter the IP Address, Subnet Mask and Default Gateway numbers obtained from your network administrator (manual method only).
- 5. Tap **OK**.
- 6. Run the Backup program to retain the new settings through a power cycle (see page 13).
- 7. Restart the QuickPanel View.

If the DHCP method was selected, the network server will assign an IP address while the QuickPanel View is initializing. (You must be connected to the network).

After setting an IP address for the QuickPanel View, you can access any network drives or shared resources for which you have permission.

#### To set up access to a Windows network

1. In the Control Panel, double-tap 😼 System.

The System Properties dialog box appears.

System Properties				
General Memory	Copyrights			
Windows				
Device <u>n</u> ame: QuickPanel				
Device <u>d</u> escripti	on: QuickPane	el View/Control		

- 2. On the **Device Name** tab, in the **Device name** box, type a unique name for your QuickPanel View. In the Device description box, type a description.
- 3. Tap **OK**.
- 4. In the Control Panel, double-tap **See Owner**.

The **Owner Properties** dialog box appears.

Owner Properties	? OK ×				
Identification Notes Network ID					
Windows CE uses this information to gain access to network resources.					
Enter the user name, password, and domain provided by your network	<u>U</u> ser <u>P</u> assword:	<b>CEUSER</b>			
administrator.	D <u>o</u> main:	DOMAINADDR			

- 5. On the Network ID tab, type your assigned User name, Password and Domain.
- 6. Tap **OK**.
- 7. Run the Backup program to retain the settings through a power cycle (see page 13).



Using Windows CE Explorer, you can now access anything on your local network for which you have permission.

#### To access a remote resource on a Windows network

3

1. Start 🔍 Windows Explorer.

The **Explorer** window appears.



#### 2. Type in the Address box, or choose from a list, the path to a remote resource.

For example '\\MyRemoteComputer\MyFolder' specifies the folder named 'MyFolder' on a computer with the name 'MyRemoteComputer'.

#### 3. Press ENTER.

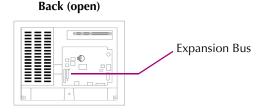
The resource specified is displayed as a collection of files and folders. It can take a few moments to retrieve the data from your local network.

**Note:** You can use the NET command from the shell to map a network resource to the QuickPanel View for frequent access. The resource then appears in the **Network** folder.

# **EXPANSION BUS**

An expansion bus is included with the QuickPanel View, and optional modules that mount directly to it are available. For more information on expansion modules, contact your distributor.

The expansion bus connectors are accessed by opening the back of the unit.



**Note:** To ensure compliance to CE Mark, the mounting screws must be used when installing an expansion card.



**Caution:** Disconnect the AC power from your 24 VDC power supply before opening the QuickPanel View. Working on a "live" unit may result in damage to equipment and injury to personnel. Always use anti-static precautions (i.e. grounded wrist strap) when accessing the interior of the unit.

**Caution:** Ensure all pins are properly aligned when inserting expansion cards. Misalignment could cause damage to the QuickPanel View and/or the expansion card.



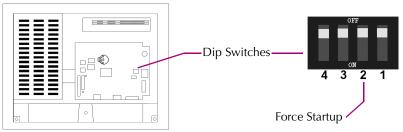
3

# **DIP SWITCHES**

The QuickPanel View is equipped with four DIP switches that each control separate functions.

DIP switches are set to "OFF" by default in the factory. DIP switch 2 is the Force Startup switch. Turning this switch on forces the startup applications to run when the operating system is started.





When the switch is set to "OFF", the QuickPanel View operates normally, displaying the startup splash screen. You can skip running the startup applications by tapping the "Don't run StartUp Programs" button on the startup splash screen.



When the switch is set to "ON", the startup programs are forced to run and the "Don't run Startup Programs" button is not available on the startup splash screen.

**Note:** Do not adjust switches other than switch 2. They are reserved for factory functions. Also note that the "Off" position of the switches is toward the DIMM connector, "On" toward the COM1 connector.

#### To configure startup behavior



**Caution:** Disconnect the AC power from your 24VDC power supply before opening the QuickPanel View. Working on a "live" unit may result in damage to equipment and injury to personnel. Always use anti-static precautions (i.e. grounded wrist strap) when accessing the interior of the unit.

- 1. Open the back cover of the QuickPanel View.
- 2. Locate the DIP switches and set DIP switch 2 to "ON".

The startup applications are now forced.

Note: Do not adjust the other switches. They are reserved for factory functions.



# MEMORY

The QuickPanel View supports a variety of memory subsystems to ensure the requirements of your application are met. All system memory is tied directly to the microprocessor's address and data busses for fastest access. To increase DRAM by up to 64 MB, a 100-pin DIMM memory expansion slot is also included.

## Flash Memory

This block of non-volatile memory (32 MB) is the main long-term program storage for the QuickPanel View, operating like a virtual hard drive from the point of view of Windows CE. It is divided into two areas, of which only one is accessible from Windows CE Explorer. The S Flash Storage folder represents a 16 MB block of memory for long-term storage of user application programs. Another 16MB block is used to store the Windows CE operating system, and is not directly accessible from Windows CE Explorer.

The operating system and all user application programs are transferred from Flash to DRAM for execution. Any user additions to the in Windows folder are retained in Flash Storage when the Execution Backup utility is run.

FLASH memory has a limited write-cycle lifetime. That is, the physical memory devices wear out after approximately 100,000 cycles (minimum), so it is advisable to limit file operations such as copy, delete, etc.

The write cycle is much slower for FLASH than it is for other portions of RAM, therefore FLASH is not recommended for the storage of program variables, or any data items whose values are dynamic.

Flash memory can optionally be added with a CF Card, which will appear as the **PCFlash Storage** folder.

#### To add Flash memory with a CF Card

Insert a Compact Flash card into CF Port (see page 32).

The unit immediately reads the new secondary storage. If the disk requires formatting, you will be prompted to do so.

New memory appears in Windows CE Explorer as **PCFlash Storage**.

#### SRAM Memory

This 512 KB block of static RAM is battery-backed to provide data retention through a power cycle. The SRAM memory is made available for user applications by operating as a virtual hard drive and is accessible from the Windows CE Explorer, represented as the SRAM Storage folder. A typical application program would create a file in this folder and store any critical program data in that file.

#### DRAM Memory

The QuickPanel View is equipped with 32 MB of dynamic RAM. Part of the DRAM (11 MB) is reserved for the Windows CE operating system and is not accessible by user applications. The other 21 MB is split between two functions: an object store for temporary file storage, and the main memory for running programs.

Typically, compressed programs stored in FLASH are expanded and moved to DRAM for execution. Temporary storage of program variables or data files is also provided by DRAM—any data stored in DRAM will not be retained through a power cycle or reboot.

The split between program memory and storage memory may be adjusted as necessary to make more room for one or the other, depending on your specific application needs. For example, if you find that an application is short of memory, use the System Properties dialog box to alter DRAM memory allocation.

**Caution:** Setting Program Memory too low may prevent additional applications from starting, or may cause currently running applications to fail due to lack of memory. Setting Storage Memory too low may prevent the saving of files into the object store portion of the file system, which may also cause application failures.

#### To change the DRAM memory allocation

1. In the Control Panel, double-tap 😼 System.

The System Properties dialog box appears.



CFK-2306A

3

2. On the Memory tab, drag the slider to divide the DRAM into Storage and Program memory.

The amount of memory allocated to and used by each area is displayed numerically. The blue bar indicates the current amount of unallocated DRAM and determines the boundaries within which the slider can move.

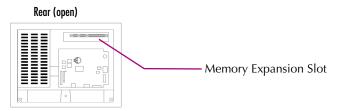
- 3. Tap **OK** to apply the new setting.
- 4. Run the **Backup** program to retain the new setting through a power cycle (see page 13).

#### Boot Loader ROM

The Boot Loader ROM provides 512 KB of non-volatile storage for the QuickPanel View's initialization program. This program configures the QuickPanel View hardware then starts the operating system's execution. This memory is not accessible from Windows CE Explorer, nor should any attempts be made to modify the contents of this ROM.

#### **Memory Expansion Slot**

The QuickPanel View is equipped with a 100-pin DIMM memory expansion slot which lets you increase DRAM to a total of 96 MB.





**Caution:** Disconnect the AC power from your 24VDC power supply before opening the QuickPanel View. Working on a "live" unit may result in damage to equipment and injury to personnel. Always use anti-static precautions when accessing the interior of the QuickPanel View.

#### To install additional DRAM

- 1. Disconnect AC power from the 24VDC supply.
- 2. With a small screwdriver carefully remove the top rear access cover.
- Insert the new DIMM carefully into the expansion slot, noting the orientation of the pin locators. When the DIMM is fully seated, lift each side clip until it clicks into place.
- 4. Snap the access cover back into place.

# OTHER SUBSYSTEMS

#### Power Management

The QuickPanel View's Power Properties control panel displays the status of the backup battery. The battery Very Low Or Missing icon displays in the taskbar when the battery is either missing or very low.

#### To access the Power Properties control panel

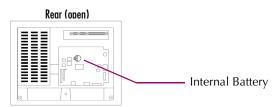
1. In the Control Panel, double-tap 🖏 Power.

The Power Properties dialog box appears.

Power Pro	p ? OK ×	
Battery		
Status: - Backup I	Batteries	
	Good	
	Low	
Very Low		

# Battery Backup

Auxiliary backup power for the real-time clock and SRAM is provided by a **non-rechargeable**, internal lithium battery (+3VDC, CR2032), ensuring that no loss of data occurs when the main 24VDC supply is removed. Backup power is enabled or disabled by installing or removing the battery, accessed via the rear panel as shown in the following illustration.





**Caution:** Disconnect the AC power from your 24VDC power supply before opening the QuickPanel View. Working on a "live" unit may result in damage to equipment and injury to personnel. Always use anti-static precautions when accessing the interior of the QuickPanel View.



#### To remove the internal battery

3

- 1. Disconnect AC power from the 24VDC supply.
- 2. Open the rear access panel.
- Release the battery by gently lifting it from the completely exposed side, past the small protrusions. To avoid breaking the battery retainer clips, do not apply excessive upward pressure.
- 4. Slide the battery out of its carrier, noting the arrow on the carrier indicating the direction of removal.

#### Real-time Clock

The QuickPanel View has a programmable real-time clock capable of reporting the current time in Year/Month/Day/Hour/Minute/Second. The time is set from the Windows CE interface and retained through a power cycle if battery backup is available. Automatic adjustment for daylight savings time is enabled by a check box within the dialog box. The time can be displayed in the system tray on the task bar.

#### To set the real-time clock

1. In the 👺 Control Panel, double-tap 💕 Date/Time.

The Date/Time Properties dialog box appears.

C	)ate	/Tir	ne I	Prop	perti	ies		OK ×
12000	Date	/Tin	ne					
	1		Apr	il 20	004			Current <u>T</u> ime 3 :37:52 PM
111111	S	м	Т	W	Т	F	S	3 :37:52 PM
11111	28	29	30	31	1	2	З	Auto Adjust DST
11111	4	5	6	7	8	9	10	Auto Aujust Don
	11	12	13	14	15	16	17	
1111	18	19	20	21	22	23	24	
0000	25	26	27	28	29	30	1	Apply
1000	2	3	4	5	6	7	8	
	Time	e <u>Z</u> or	ne [	(GM	T-07	:00)	Μοι	untain Time (US & Car 💌

Note: Tap Apply after making changes in any box.

- 2. Tap the year to choose a new year; tap the month to choose a new month.
- 3. Tap a date to specify the day of month.
- 4. From the Time Zone box, choose your zone.
- 5. Select Auto Adjust DST to have the clock automatically compensate for daylight savings time.
- 6. In the Current Time box, adjust the hours, minutes and seconds.
- 7. Tap OK t<u>o fini</u>sh.
- 8. Run the Backup program to save Time Zone or Daylight Savings changes through a power cycle (see page 13).

#### To display the time on the taskbar

1. From the 🂦 Start menu, choose 🎐 Settings and then 🔜 Taskbar and Start Menu Properties.

The Taskbar Properties dialog box appears.

Taskbar a	nd Start Menu Proper <mark>OK</mark> 🗙
General /	Advanced
🔽 Alwa	ays on top
🗌 A <u>u</u> to	) hide
🔽 Shor	w <u>C</u> lock

- 2. On the Taskbar Options tab, select Show Clock.
- 3. Tap **OK**.

An hours and minutes display now appears in the taskbar.

💦 Start	📟 🕹 🏓 1:10 PM 😓	Clock Display
<ul> <li>Start</li> </ul>		





# **A1**

# **Design Specifications**

The specifications listed in this appendix are the design goals for the QuickPanel View. In most cases the "as built" or tested specifications are identical. See page 51 for a list of agency approvals for environmental service and safety.

# Physical

Enclosure dimensions	Height: 8.93 in (226.8 mm)
(actual - see page 4 for panel	Width: 11.85 in (301.1 mm)
cutout specifications)	Depth: 2.37 in (60.1 mm)
Bezel dimensions	Height: 10.34 in (262.6 mm)
	Width: 13.26 in. (336.8mm)
	Depth: 0.38 in (9.7 mm)
Weight	2.5lb (1.16 kg)

#### DC Power

Input Voltage	12 VDC (@ +/- 20% regulated power supply; or 24 VDC (@ +/- 20% regulated power supply)
Real Power	12″ models - 36W
	10" models - 24W
Power Supply Conductor Size	12 to 18 AWG
	For compliance to CE Mark, the isolated frame ground must be connected.
	Recommended frame ground connection is via the shortest possible route, using 14 AWG.
Connector (Vendor, p/n)	Phoenix Contact, 1777992



# Display

	10″	12"
Size	10.4" (26.4 cm)	12.1" (30.5 cm)
Colors	256 shades of gray	32,768 (15 bits/pixel)
Resolution	640 X 480	800 X 600
Fabrication	Passive	TFT
Backlight	Cold Cathode Fluorescent (CCFL) - rated half life: 20,000 hours <sup>1</sup>	Cold Cathode Fluorescent (CCFL) - rated half life: 50,000 hours <sup>1</sup>

#### **Front Panel**

Bezel Material		Valox 357U <sup>2</sup>
Membrane Material		Lexan HP60 <sup>3</sup>
LEDs	Bottom	Power status indicator (green with power applied, flashes amber if both backlights fail)
	Тор	Programmable tri-color (green, red, amber)

#### Touch Screen

	Mono	Color
Туре	Resistive, 12 bit	Resistive, 12 bit
Resolution	X axis- 640 cells	X axis- 800 cells
	Y axis - 480 cells	Y axis - 600 cells
	(after calibration)	(after calibration)

#### CPU

Processor Clock speed Intel XScale PXA255

300 Mhz

<sup>1</sup> Backlight not field replaceable.
 <sup>2</sup> For material specifications, visit www.gepolymerland.com
 <sup>3</sup> For material specifications, visit gestructuredproducts.com

#### Memory

FLASH	32 MB
SRAM	512KB (Battery Backed)
DRAM	32 MB
ROM	512 KB (Boot loader)

### Memory Expansion Slot

Form Factor	100 pin DIMM
Memory Type	SDRAM
Maximum DRAM	64 MB
Maximum Devices/Module	4
Bus Width	32 bits
Bus Speed	100 MHz or faster
Voltage	3.3 VDC
CAS Latency	CL=3
Refresh Cycle Time	64 ms maximum
Error Correction	Non-ECC
Error Detection	No parity
Buffering	None
Device Row Addressing	12 Address Lines (A0 to A11)
Expansion Memory Catalog Number	32MB - IC754ACC32MEM 64MB - IC754ACC64MEM

#### **Expansion Ports**

Compact Flash Memory	One slot (type 2)
Expansion Bus	One slot



#### **Communication Ports**

Ethernet		IEEE 802.3
		10/100BaseT (LAN1)
		Auto-negotiate
		Full or half duplex
		RJ45 connector
		Two status LEDs
Serial C	OM1	EIA232C/EIA485, DP25S (female)
	Speed	300 bps - 115200 bps
	Mounting h/w	M2.6 jackscrew
	Fuse	1.0A, 125V fast blow cartridge type, Littlefuse part #154001

#### Environmental

Operating Temperature	32°F to 122°F
	(0°C to 50°C)
Operating Humidity	10% to 90% RH, non-condensing (12")
	10% to 85% RH, non-condensing (10")
Storage Temperature	-4 to 158°F
	-20 to 70 °C
Storage Humidity	10% to 85% RH, non-condensing at < 50°C; max. 50% at > 50°C
NEMA Rating	4, 4x, and 12 when mounted in a comparably rated NEMA panel (NEMA 4 is approximately equivalent to IP56; visit www.nema.org)
Operational Vibration	IEC 68-2-6
	10 - 57Hz, 0.012" peak to peak displacement
	57 - 500Hz, 1.0g acceleration
Operational Shock	IEC 68-2-27
	15g, 11ms (sine wave)

#### Battery

Туре	CR2032 (3V, 190mAh, lithium)
Life (Approximate)	5 years

# Calendar/Clock

Resolution Retention 1 second Life of battery

#### Agency Qualifications

Model # ES1221 (color)

Model # ES1001 (mono)

Description	Agency Standard or Marking	Comments
North American Safety for Industrial Control Equipment	UL 508/C-UL	Certification by Underwriter's Laboratories to UL standard and equivalent CSA standard
North American Safety for Hazardous Locations Class I, Div. 2, Groups A, B, C, D	UL 1604/C-UL	Certification by Underwriter's Laboratories to UL standard and equivalent CSA standard
Explosive Atmospheres Directive European Safety for Hazardous Locations Equipment Group II, Category 3	ATEX (when mounted in an IP66- rated panel)	Certification in accordance with European directives; refer to Declaration of Conformity and Independent 3 <sup>rd</sup> Party Assessment Certificate
Low Voltage Directive European Safety for Industrial Control Equipment	CE	Self-declaration in accordance with European directives; refer to Declaration of Conformity
Electromagnetic Compatibility Directive European EMC for Industrial Control Equipment	CE	Certification by competent body in accordance with European directives; refer to Declaration of Conformity







# Troubleshooting

The tables contained in this appendix can be used to identify and remedy problems that can occur with the 10" and 12" QuickPanel View.

#### Power up

Problem	Suggested remedy
Blank screen.	<b>No power:</b> Check all power connections to the QuickPanel CE.
	<b>Backlight failed:</b> This is further indicated when the bottom LED glows amber. The LED will only light if both top and bottom backlights have failed.
	Backlight timer expired: Touch screen to reactivate.

#### Pocket Internet Explorer

Problem	Suggested remedy
Cannot access any URLs when using a dial-up connection to an ISP.	If you have previously set up an IP address on a local Ethernet Network, it must be cleared. Disconnect your Ethernet cable and reboot.
	Your ISP will reassign an IP address when you reconnect the cable.





# Index

# A

accessing Windows network 35, 36 adding connections 28, 30 addresses IP 34 adjusting display brightness 20, 21

## B

backlight (note) 8, 48 set for auto turn off 21 backup 13 battery 43 specifications 50 status 43 baud rate 30 bezel 48 block diagram 9 boot loader ROM 42 brightness 20, 21

#### C

calibrating touch screen 22 CIMPLICITY Machine Edition 15 clock 44 COM1 27 communication port 27, 50 location 8 compact flash adding memory 40 configuring set IP address 34 TCP/IP settings 30 connections adding 28, 30 set IP address 34 TCP/IP settings 30 Windows network 35 cutout 4 see also design specificatons

#### D

design specifications 47 device properties, configuring 30 DHCP (Dynamic Host Configuration Protocol) 33 dial-up connection 28 dip switches 38 displaying real-time clock 45 double-tap sensitivity setting 22, 23 DRAM 41 partition DRAM memory 41 partitioning 41

#### E

Emulate PPC 15 Ethernet 33 port settings 34 expansion bus 37 expansion busses locations 8 expansion ports 49 Explorer, Internet 11

#### F

flash 40 flow control 30 front panel 8,48 bezel 48 LEDs 8, 48 membrane 48

#### I

input panel displaying 25, 26 Internet Explorer 11 IP address setting 34

# K

keyboard shortcuts 26

# L

LEDs Ethernet 33, 50 front panel 8, 48

#### М

Machine Edition 15 membrane 48 memory 40, 49 adding with CF card 40 boot loader ROM 42 DRAM 41 flash 40 partition DRAM memory 41 SRAM 41 memory expansion slot 42 modem configuration 28 mounting dimensions 4 hardware 5 mounting directions 5 mounting brackets 5



#### P

panel cutout 4 see also design specifications parity 30 partitioning DRAM 41 physical layout 8 Pocket Internet Explorer 11 port communication 50 ports communication 27 Ethernet 33 expansion 49 locations 8 serial 27 power management 43 control panel 43 power supply 2 power supply terminals location 8 PPPoE 29 product support 6 programs start menu 10 proxy server 11

#### R

real-time clock 44 displaying 45 setting 44

#### S

serial ports 27 setting double-tap sensitivity 23 sensitivity 22 IP address 34 real-time clock 44 setup basic 2 runtime 3 shutdown 4 specifications 47 SRAM 41 start menu 10 startup 3 configuring behavior 39 force startup switch 38 stop startup programs 38 storage card 40, 41 storage manager 14

support 6 switches, dip 38 System Information 14

#### T

Technical Advisor 6 technical support 6 terminal emulation 30 touch screen 22 calibrating 22 troubleshooting 53

#### U

utilities backup 13 System Information 14

#### V

virtual private network 30

#### W

Windows CE 10 Windows network accessing 35, 36

56 10"712" QuickPanel View