Hardware User's Guide

6″ QuickPanel View

IC754VGI06STD
IC754VHI06STD
IC754VGI06MTD
IC754VHI06MTD

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1 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™, 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 6" QuickPanel View is an all-in-one microcomputer designed for maximum flexibility. The design, based on an advanced Intel® microprocessor, brings together a high-resolution 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.

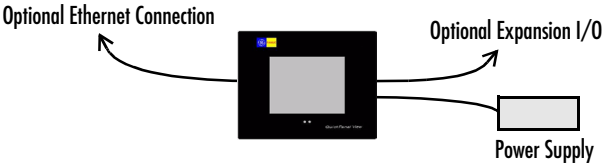
The QuickPanel View is equipped with several memory types to satisfy even the most demanding applications. A 32 MB section of DRAM is split between the operating system, an object store, and application memory. A 32 MB section of non-volatile FLASH memory, functioning as a virtual hard drive, is divided 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 6" 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 connect and configure optional input devices (see page 27), communications ports (see page 31) and expansion adapters (see page 41).

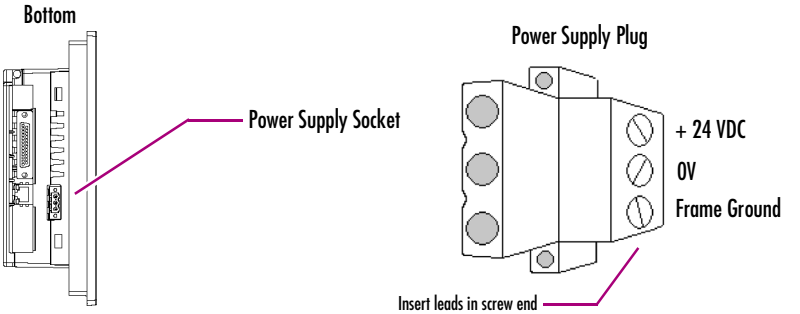




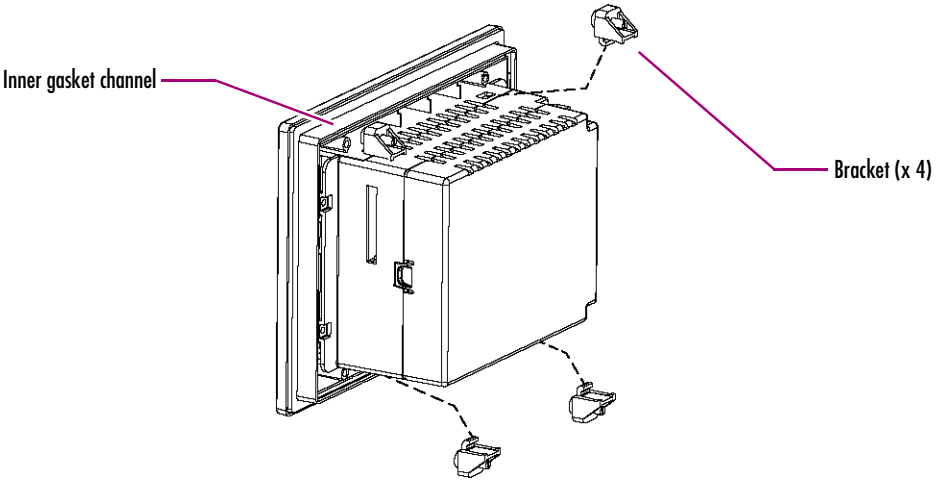
Caution - Electrical Shock Hazard: To avoid personal injury or damage to equipment, ensure that the DC supply is disconnected from power and that the leads are not energized before attaching them to the unit's power supply plug.

To connect a DC power supply

1. Using the three screw terminals shown in the following diagram, attach a 24VDC, 24W power supply to the plug supplied with the QuickPanel View. See the **DC Power** section starting on page 51 for power supply and conductor specifications.
2. Insert the plug into the power supply socket and securely tighten the attaching screws.



To secure the QuickPanel View to a panel with the small cutout, use the four included mounting clips, which hook into the openings located on the top and bottom of the housing as shown in the following illustration..



To mount the unit in a panel with small cutout dimensions

1. Separate the small cutout gasket from the supplied gasket sheet (the small cutout gasket is nested within the larger one, and has two notches on each long side). Avoiding damage to the gasket, carefully remove the covering over its adhesive backing, and then apply the gasket with its adhesive surface toward the inner gasket channel (see the illustration above).
2. Verify that the gasket is properly seated in the gasket channel, then insert the unit into the panel cutout (without a CF card in the CF port).
3. Insert the hook of each mounting bracket in the housing openings.
4. Tighten the screws to 2.6-4.4 inch/lbs (0.3-0.5 Nm).

Notes:

- For compliance to NEMA 4, 4x and 12 qualification, the unit must be mounted in a comparably NEMA rated (IP56 or equivalent) panel or enclosure.
- For compliance to ATEX agency qualification, the unit must be mounted in an IP66 panel or enclosure.
- Do not damage the gasket attached to the back of the unit's bezel. This gasket prevents shock hazards and damage caused by liquids accidentally entering the unit after installation. Also, limit the number of times you remove and reinstall the unit. Too many installations may cause gasket "set" and degradation of the

2 Overview

This chapter provides introductory information on the 6" QuickPanel View hardware and software with descriptive procedures for completing some of the most common tasks you will encounter.

In this chapter:

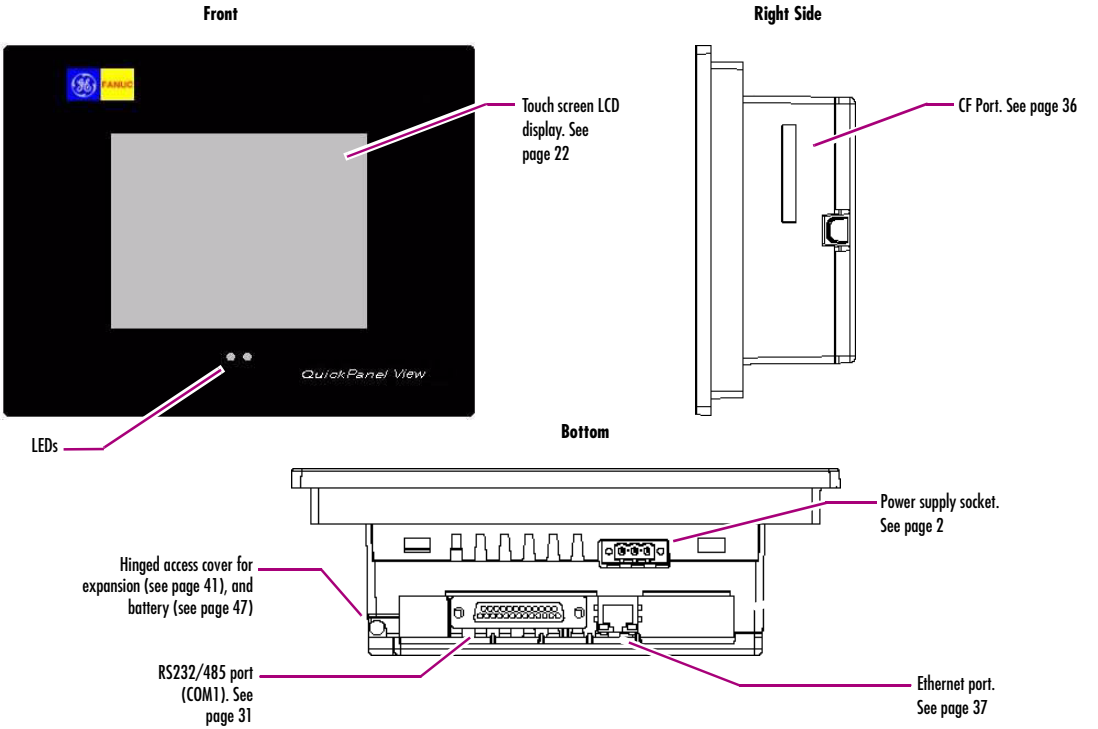
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QUICKPANEL VIEW HARDWARE

Layout Diagram

In addition to the primary touch screen interface, the 6" 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 left LED below the display is green when power is applied and amber if the backlight fails;[1] the right LED is tricolor (green, red, or amber) and programmable.



Note: On color STN models (IC754VxI06STD), the LEDs are located on the right side of the LCD display, with the bottom LED indicating power.

[1] Backlight is not field replaceable.

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 6" QuickPanel View's operating system.

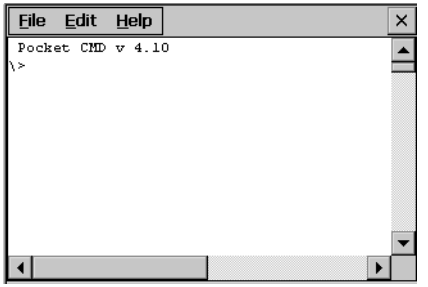
The HTTP utility currently supports two file transfer commands: COPY and DELETE.

> **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 Programs in the **Start** menu, choose Programs, then choose **Command Prompt.**

   The **Command Line** editor appears.



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

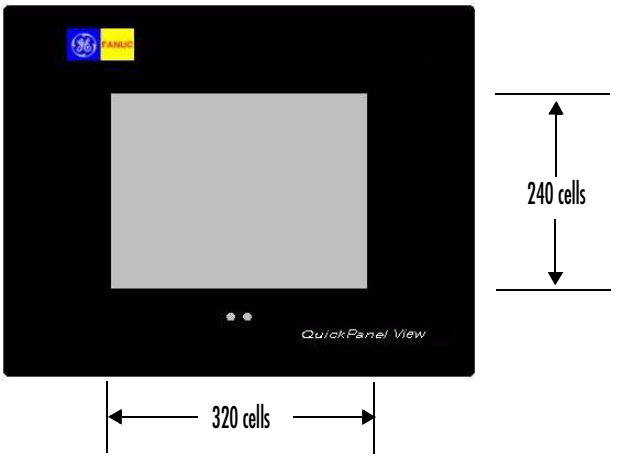
   HTTPUTIL COPY source destination

   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
```

Touch Screen

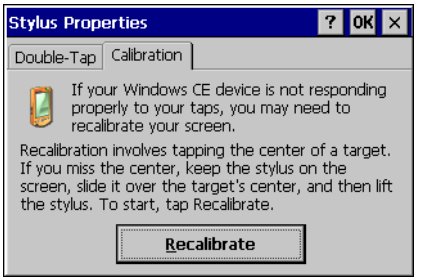
The QuickPanel View display is coupled to a resistive touch panel with 12-bit resolution. When the QuickPanel View is properly calibrated, this translates into a grid of touch cells on the face of the display. Although you can use your finger to actuate the touch screen, use of a blunt stylus is recommended.



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.