Hardware User's Guide

6" QuickPanel View

IC754VSI06STD
IC754VBI06STD
IC754VSI06MTD
IC754VBI06MTD

May 2004
GFK-2325

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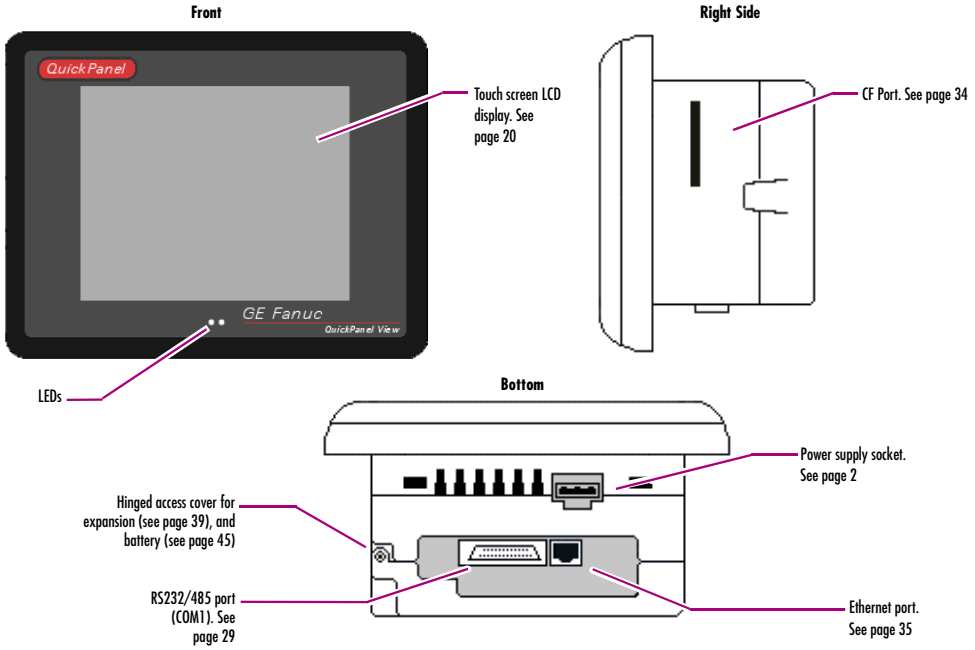
Overview
QuickPanel View Hardware

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.

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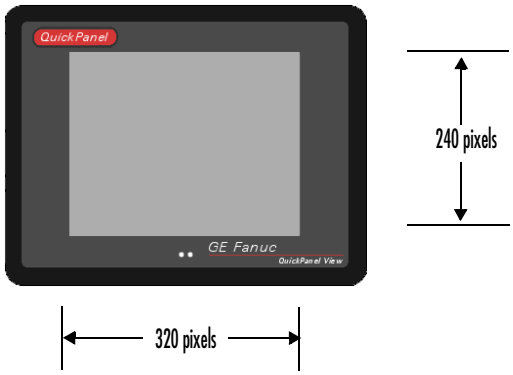
TOUCH SCREEN DISPLAY

The QuickPanel View has an integrated flat-panel color or monochrome display, depending on model. The color model (IC754VxI06STD) is backlit, measures 5.7" diagonally, and uses passive STN technology. The monochrome model (IC754VxI06MTD) is backlit, measures 5.7" diagonally, and uses passive FSTN technology.

The resolution of the color display is 320 x 240 pixels with 65,536 colors; the resolution of the monochrome display is 320 x 240 pixels with 256 shades of gray.

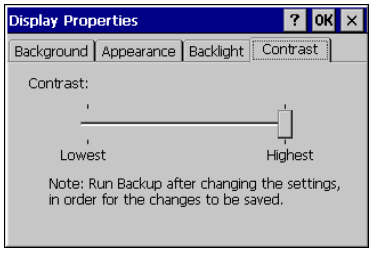
A backlight timer is featured on all models, extending backlight life by turning it off automatically.



To adjust the display contrast

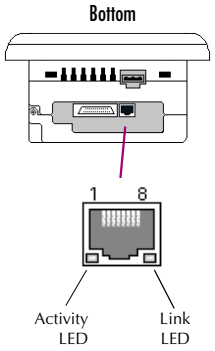
1. In the Control Panel, double-tap **Display** and choose the **Contrast** tab.

   The **Contrast** dialog box appears.



ETHERNET

The QuickPanel View is equipped with a 10/100BaseT auto-negotiate Ethernet port (IEEE802.3), and 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.



1	TX_D1 +
2	TX_D1 -
3	RX_D2 +
4	B1_D3 +
5	B1_D3 -
6	RX_D2 -
7	B1_D4 +
8	B1_D4 -

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.** The user uniquely specifies the numeric addresses for the QuickPanel View, the Subnet Mask (if applicable), and the Default Gateway.

  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.

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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 53 for a list of agency approvals for environmental service and safety.

Physical

Enclosure dimensions	Height: 4.86 in (126mm) Width: 6.14 in (158mm) Depth: 2.76 in (70mm)
Bezel dimensions	Height: 6.17 in (156.7mm) Width: 8 in (203.2mm) Depth: 0.85 in (21.5mm)
Weight	2.5lb (1.16 kg)

DC Power

Input Voltage	10.8 to 30 VDC (12 VDC +/- 10% regulated power supply; 24 VDC +/- 20% power supply)
Real Power	12 W Power requirement nominal for startup when DC supply is already powered and stable. Applying power to the supply while connected to the QuickPanel View increases total inrush current requirements. In this case, supply should be rated at 10x the nominal startup current. Otherwise, an interposing relay or switch must be used between the DC supply and the QuickPanel View. NOTE : For compliance with UL 1604, switches or relays in-line with the DC power wiring cannot be used in hazardous locations.
Connector (Vendor, p/n)	Phoenix Contact, 1777992
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 a 14 AWG conductor.

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Design Specifications

Display

Size	5.75" 14.6 cm
Colors	65,536 (color) 256 shades of gray (monochrome)
Resolution	320 X 240
Fabrication	Passive STN transmissive (color) Passive FSTN (monochrome)
Backlight	Cold Cathode Fluorescent (CCFL) - rated half life: 40,000 hours (color) Cold Cathode Fluorescent (CCFL) - rated half life: 50,000 hours (monochrome) Backlight not field replaceable.

Front Panel

Bezel Material	Valox 357U For material specifications, visit **www.gepolymerland.com**
Membrane Material	Lexan HP60 For material specifications, visit **gestructuredproducts.com**
LEDs	
Left (bottom on color model)	Power status indicator (green with power applied, amber if backlight fails)
Right (top on color model)	Programmable tri-color (green, red, amber)

Touch Screen

Type	Resistive, 12 bit
Resolution	X axis- 320 cells Y axis - 240 cells (after calibration)

CPU

Processor	Intel XScale PXA255
Clock speed	300 Mhz

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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

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Design Specifications

Communication Port

Ethernet	IEEE 802.3 10/100BaseT RJ45 connector Two status LEDs Maximum cable length: 30M
Serial COM1	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

	Mono	Color
Operating Temperature	14°F to 140°F (-10°C to 60°C)	32°F to 140°F (0°C to 60°C)
Operating Humidity	10% to 85%, non-condensing	10% to 90%, non-condensing
Storage Temperature	-4 to 158°F -20 to 70 °C	-4 to 140°F -20 to 60 °C
Storage Humidity	10% to 85%, non-condensing	10% to 90%, non-condensing
NEMA Rating	4, 4x, and 12 when mounted in a panel (IP65 equivalent)	4, 4x, and 12 when mounted in a panel (IP65 equivalent)
Operational Vibration	IEC 68-2-6 10 - 57Hz, 0.012" peak to peak displacement 57 - 500Hz, 1.0g acceleration	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)	IEC 68-2-27 15g, 11ms (sine wave)

Battery

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

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Calendar/Clock

Resolution	1 second
Retention	Life of battery

Agency Qualifications

Model # ES0611 (color)

Model # ES0601 (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
Enclosures for Electrical Equipment	UL 50	Certification by Underwriter's Laboratories to Type 4, 4X
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 3rd 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

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