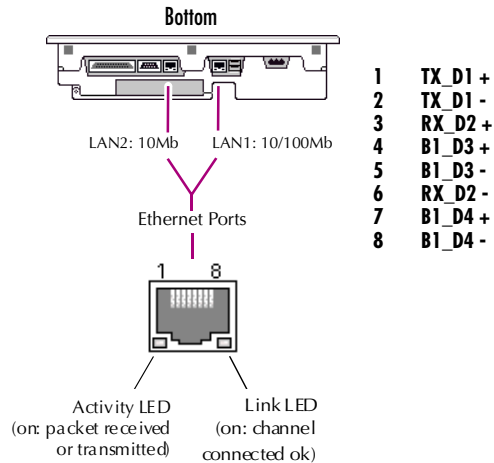


ETHERNET

The QuickPanel View is equipped with two auto-negotiate, full or half duplex Ethernet ports (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 for Port 1 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.** This is the default method for Port 2. 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

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


The **Connection** window appears.



2. Select a  connection and choose  **Properties**.

The **Built-in Ethernet Port Settings** dialog box appears.




3. Select a method:
 - **Obtain an IP address via DHCP** (automatic).
 - **Specify an IP address** (manual).
4. Enter the **IP Address**, **Subnet Mask** and **Default Gateway** numbers obtained from your network administrator (manual method only).
5. Tap **OK**.
6. To save the settings, run  **Backup** (see page 16).

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

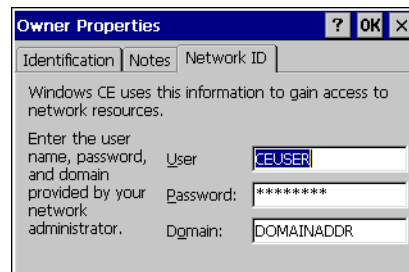
1. In the Control Panel, double-tap  **System**.


The **System Properties** dialog box appears.



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  **Owner**.

The **Owner Properties** dialog box appears.



5. On the **Network ID** tab, type your assigned **User name**, **Password** and **Domain**.
6. Tap **OK**.
7. To save the settings, run  **Backup** (see page 16).

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

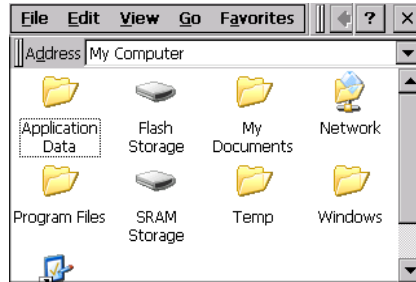
To access a remote resource on a Windows network

1. Start  **Windows Explorer**.

Detailed Operation

Ethernet

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

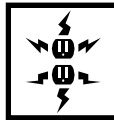
An expansion bus is included with the QuickPanel View, and optional modules that mount directly to it are available. For more information on expansion modules, contact your distributor.

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

Back (open)



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. Do not allow conductive material, liquid or solid, to contact the electronics of the QuickPanel.

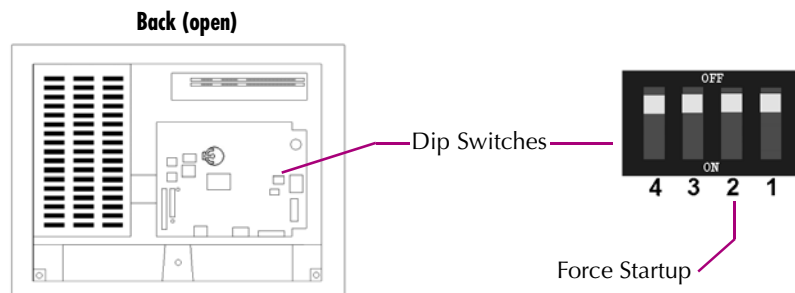
Caution: Ensure all pins are properly aligned when inserting expansion cards. Misalignment could cause damage to the QuickPanel View and/or the expansion card.

Detailed Operation

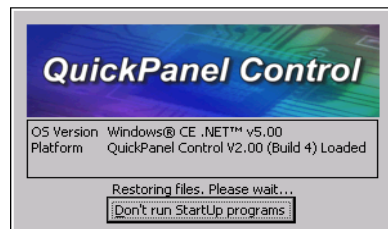
DIP Switches

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.



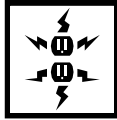
When the switch is set to “OFF”, the QuickPanel View operates normally, displaying the startup splash screen. You can skip running the startup applications by tapping the “Don’t run StartUp Programs” button on the startup splash screen.



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. Do not allow conductive material, liquid or solid, to contact the electronics of the QuickPanel.

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 (32MB or 64MB, depending on your model) 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  **Flash Storage** folder represents a block of memory (16MB or 48MB, depending on your model) available 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  **Windows** folder are retained in  **Flash Storage** when the  **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.

Caution: Do not remove power while the system is writing to the CF card, such as when copying a Proficy Machine Edition project. Removing power while writing may lead to data loss and file or CF card corruption. To ensure the system completes writing to flash and closes all files, see "Shutdown" on page 4.


To add Flash memory with a CF Card

- Insert a Compact Flash card into CF Port (see page 47). 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**.

External flash memory devices are named after their types of connection and order of attachment. For example, if you connect two flash memory devices, one via the CF port and one via the fieldbus connector, the first device connected is named PCFlash Storage, the second PCFlash Storage2. At powerup, a CF port device is recognized and named first. Otherwise name depends on connection order.

SRAM Memory

This 512 KB block of static RAM is battery-backed to provide data retention through a power cycle. This memory block is shared by the operating system and user applications. A portion of the SRAM memory operates as a virtual hard drive and is accessible from the Windows CE Explorer. It is 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 (15.4 MB) is reserved for the Windows CE operating system and is not accessible by user applications. The other 16.6 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.

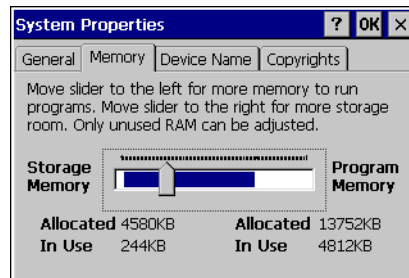
To change the DRAM memory allocation

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

Detailed Operation

Memory

The **System Properties** dialog box appears.



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.

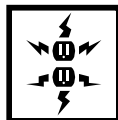
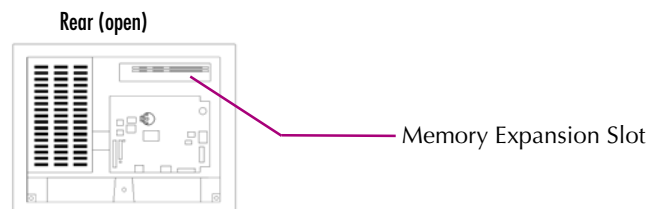
3. Tap **OK** to apply the new setting.
4. To save the settings, run  **Backup** (see page 16).

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. Do not allow conductive material, liquid or solid, to contact the electronics of the QuickPanel.

To install additional DRAM


1. Disconnect AC power from the 24VDC supply.
2. With a small screwdriver carefully remove the top rear access cover.
3. 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

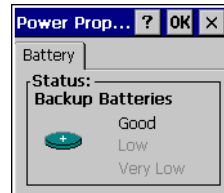
Power Management

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

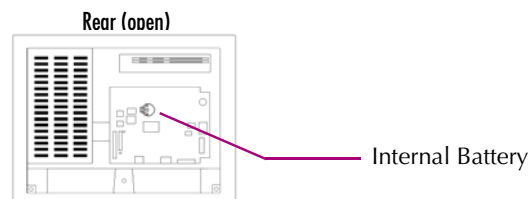
1. In the Control Panel, double-tap  Power.

The Power Properties dialog box appears.



Battery Backup

Auxiliary backup power for the real-time clock and SRAM is provided by a **non-rechargeable**, internal lithium battery (+3VDC, BR2032), 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. Do not allow conductive material, liquid or solid, to contact the electronics of the QuickPanel.



To remove the internal battery

1. Disconnect AC power from the 24VDC supply.
2. Open the rear access panel.
3. 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.

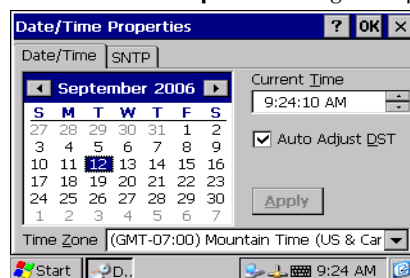
Real-time Clock

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. Daylight saving 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.






Note: Tap Apply after making changes in any box.

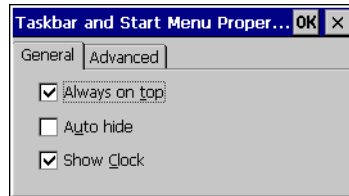
2. To modify the date, select the Date/Time tab.
3. Tap the year to choose a new year; tap the month to choose a new month.
4. Tap a date to specify the day of month.
5. From the **Time Zone** box, choose your zone.
6. Select **Auto Adjust DST** to have the clock automatically compensate for daylight savings time.
7. In the **Current Time** box, adjust the hours, minutes and seconds.
8. Tap **OK** to finish.

The time can be displayed in the system tray on the task bar.

To display the time on the taskbar

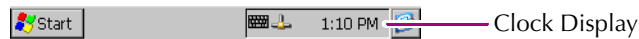
1. From the  **Start** menu, choose  **Settings** and then  **Taskbar and Start Menu Properties**.

The **Taskbar Properties** dialog box appears.



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

An hours and minutes display now appears in the taskbar.



Configuring SNTP

There are two levels of Network Time Protocol (NTP) time servers available on the Internet.



First-level time servers are primarily intended to act as source time servers for second-level time servers. First-level time servers may also be capable of providing mission-critical time services. Some first-level time servers may have a restricted access policy.

Second-level time servers are intended for general SNTP time service needs and usually enable public access. It is recommended that you use second-level time servers for normal SNTP time server configuration because they are normally located on a closer network that can produce faster updates.

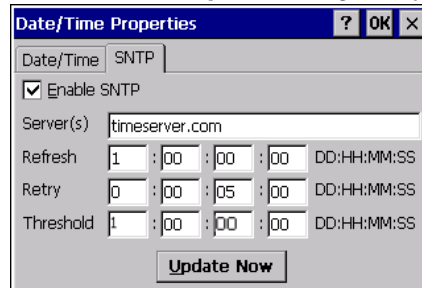
It is recommended that you research any time server selection to ensure that it can meet your specific time server requirements. More information and a list of SNTP time servers can be found at <http://support.microsoft.com/kb/262680/>.

If the time on the time server is more than the threshold value away from the current time on the QuickPanel View, then the time is not updated. Setting the Threshold to 0 tells the utility to always accept the time from the server. This setting would be useful in a case where the backup battery has died and the QuickPanel View was power cycled, since the internal clock would have reset back to January 1, 1980 12:00 am.


To set SNTP

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

The **Date/Time Properties** dialog box appears.



Note: Tap Update Now after making changes in any box.

2. To add or modify SNTP settings, select the SNTP tab.
3. To enable SNTP, ensure the **Enable SNTP** check box is selected.
4. Enter the time server name in the **Server(s)** field.
5. Set the **Refresh**, **Retry**, and **Threshold** parameters.
6. Tap **Update Now** to update SNTP settings immediately.
7. Tap **OK** to finish.
8. To save the settings, run  **Backup** (see page 16).

A1

Design Specifications

The specifications listed in this appendix are the design goals for the QuickPanel View/Control. In most cases the “as built” or tested specifications are identical. See page 70 for a list of agency approvals for environmental service and safety.

Physical

Enclosure dimensions (actual - see page 5 for panel cutout specifications)	Height: 8.93 in (226.8 mm)
	Width: 11.85 in (301.1 mm)
	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	5.2lb (2.36 kg)

DC Power

Input Voltage	12 VDC (@ +/- 20% regulated power supply; or 24 VDC (@ +/- 20% regulated power supply)
Power Dip Tolerance	-30% nominal input voltage, 10msec.
Insulation Resistance	>200Mohm @ 1000V frame ground to 0V >200Mohm @ 1000V frame ground to 24V
Real Power	48 W
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

Design Specifications

Display

Size	12" 30.5 cm
Colors	32,768 (15 bits/pixel)
Resolution	800 X 600
Fabrication	TFT
Backlight	Cold Cathode Fluorescent (CCFL) - rated half life: 50,000 hours ¹
Luminance	250 NITS

Front Panel

Bezel Material	Valox 3706 ²	
Membrane Material	Lexan HP60 ³	
LEDs	Bottom	Power status indicator (green with power applied, flashes amber if both backlights fail)
	Top	Programmable tri-color (green, red, amber)

Touch Screen

Type	Resistive, 12 bit
Resolution	X axis- 800 cells Y axis - 600 cells (after calibration)

CPU

Processor	XScale™
Clock speed	400 Mhz

¹ Backlight not field replaceable.

² For material specifications, visit www.gepolymerland.com

³ For material specifications, visit gestructuredproducts.com

Memory

FLASH	32MB or 64MB
SRAM	512KB (Power off retention is the life of the battery)
DRAM	32MB
ROM	512KB (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 Type	Self
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	32 MB – IC754ACC32MEM 64 MB – IC754ACC64MEM

Expansion Ports

Compact Flash Memory	One slot (Type I/II), 3.3v only
FieldBus	One slot
Universal Serial Bus (USB) (2)	V1.1 compatible

Design Specifications**Communication Ports**

Ethernet (x 2)	IEEE 802.3 10BaseT/100BaseTX (LAN1), 10BaseT (LAN 2) Auto-negotiate Full or half duplex RJ45 connectors Two status LEDs per connector 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
Serial COM2	EIA232C, DP9P (male)
Speed	300 bps - 115200 bps
Mounting h/w	#4-40 screw

Environmental

Operating Temperature	32°F to 122°F (0°C to 50°C)
Operating Humidity	10% to 85% RH, non-condensing
Storage Temperature ¹	-4 to 158°F -20 to 70 °C
Storage Humidity	10% to 85% RH (non-condensing) at less than 50°C; maximum 50% RH at greater than 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)

Design Specifications

¹Rated temperature limits refers to the ambient air temperature immediately surrounding (less than 3" or 7.6 cm) the QuickPanel inside the enclosure in which the QuickPanel is mounted. Additional provisions for remaining within the stated limits must be considered where additional, external thermal loads are imposed on the QuickPanel. These could include large heat producing motor drives, or power supplies in the same cabinet or in outdoor applications involving direct sun exposure.

Battery

Type	BR2032 (3V, 190mAh, lithium)
Life (Approximate)	5 years

Calendar/Clock

Resolution	1 second
Accuracy	+/- 2 to 3 minutes per month
Retention	Life of battery

Design Specifications**Agency Qualifications**

Model # ES1222

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 rd 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

A2

Troubleshooting

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

Power up

Problem	Suggested remedy
Blank screen.	No power: Check all power connections to the QuickPanel CE. Backlight failed: 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.

Physical Unit

Problem	Suggested remedy
Slow or sluggish touch response.	<p>Ensure that configured I/O or communications channels such as serial or Ethernet are operating without error. These errors can cause higher system overhead leading to delayed response to touch inputs.</p> <p>Ensure that flash drives, internal or external, are operating without error. If the flash drives are highly fragmented or corrupted, reads and writes to the drive can experience significant delays leading to delayed response to touch inputs. Corrupted external flash drives may be corrected with Storage Manager. See "Storage Manager" on page 18.</p>
After adding expansion memory in the DIMM connector, the system won't boot, or if it does boot, an error message is displayed.	<p>When the system is first started, observe the screen to notice any memory error messages from the boot loader. If any messages appear, such as "DIMM not 12 row", "DIMM not 32 bit", "DIMM refresh unsupported", power down the system and remove the memory module. If the error message is displayed from the Windows CE desktop, also power down the system and remove the memory module. For proper operation, expansion memory modules must meet the requirements stated in the Design Specifications.</p>

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