

Simplex® TrueSite™ Workstation



Installation & Checkout Instructions

579-834
Rev. C

Cautions and Warnings



READ AND SAVE THESE INSTRUCTIONS. Follow the instructions in this installation manual. These instructions must be followed to avoid damage to this product and associated equipment. Product operation and reliability depends upon proper installation.

DO NOT INSTALL ANY SIMPLEX PRODUCT THAT APPEARS DAMAGED. Upon unpacking your Simplex product, inspect the contents of the carton for shipping damage. If damage is apparent, immediately file a claim with the carrier and notify an authorized Simplex product supplier.

ELECTRICAL HAZARD - Disconnect electrical field power when making any internal adjustments or repairs. Servicing should be performed by qualified Simplex representatives.

STATIC HAZARD - Static electricity can damage components. Therefore, handle as follows:

- Ground yourself before opening or installing components.
- Prior to installation, keep components wrapped in anti-static material at all times.

EYE SAFETY HAZARD - Under certain fiber optic application conditions, the optical output of this device may exceed eye safety limits. Do not use magnification (such as a microscope or other focusing equipment) when viewing the output of this device.

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

SYSTEM REACCEPTANCE TEST AFTER SOFTWARE CHANGES - To ensure proper system operation, this product must be tested in accordance with NFPA-72, after any programming operation or change in site-specific software. Reacceptance testing is required after any change, addition or deletion of system components, or after any modification, repair or adjustment to system hardware or wiring.

All components, circuits, system operations, or software functions known to be affected by a change must be 100% tested. In addition, to ensure that other operations are not inadvertently affected, at least 10% of initiating devices that are not directly affected by the change, up to a maximum of 50 devices, must also be tested and proper system operation verified.

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Chapter 1. Before You Begin

Introduction

This publication describes how to install and check out the Simplex® TrueSite™ Workstation, which includes the TrueSite Workstation Runtime application and the TrueSite Workstation Configurator.

The TrueSite Workstation Runtime application provides head-end annunciation, floor plan display, system control and information management for Simplex fire system networks. The TrueSite Workstation is a node on a Simplex Fire Network used to annunciate and control the points contained within the network. If you are installing additional Network Interface Cards, you can control up to four networks from one common TrueSite Workstation. The TrueSite Runtime application provided is a Microsoft Windows® XP application that makes it easy to interact with the network by entering input through a keyboard, mouse, or touchscreen.

The TrueSite Workstation Configurator is a programming application used to configure hardware devices, network nodes, and general system settings in the TrueSite Workstation.

Unpack the Equipment

When you receive the equipment, immediately inspect the packaging for any signs of shipping damage. If there are any signs of shipping damage, file a claim with the carrier and notify your local Simplex product supplier.

If there are no signs of shipping damage to the packaging, proceed with unpacking the equipment. Remove all protective plastic covering, styrofoam packaging material, and any other packaging material that may have been used.

Inventory the Equipment

After the equipment is unpacked, locate the shipping papers that came with the equipment and inventory the equipment received. If equipment is missing, notify your local Simplex product supplier. If you received all the equipment listed on the shipping papers, proceed with the hardware installation.

Chapter 2. Installing the Hardware

Introduction

This chapter describes the necessary TrueSite Workstation hardware and shows you how to successfully install the TrueSite Workstation Runtime application and TrueSite Workstation Configurator.

In this Chapter

This chapter discusses the topics listed in the following table. Refer to the page number listed after the topic for information on that topic.

Topic	See Page #
System Requirements	2-2
Connecting the TrueSite Workstation to the System	2-5

System Requirements

System Requirements for Windows XP Computers

For a Microsoft® Windows® XP-based computer platform to operate properly as a TrueSite Workstation, it must meet or exceed the following minimum hardware requirements:

- An IBM-compatible personal computer with a Pentium® 4 (2.8 Ghz minimum) Processor
- 40 GB (or greater) Hard Drive
- USB Port (for Dongle)
- 1 GB of RAM minimum
- SVGA graphics controller
- SVGA Monitor (with or without touchscreen)
- Mouse
- CD drive (CD-RW recommended)
- Fan monitor card (required for 4190-8403)

The following is a list optional requirements based on the necessity of additional devices:

- 1 parallel port (for printer)
- 2 serial ports (for connecting DACR and 2120 retrofit)

Additional Hardware Requirements (Proprietary and Central Station)

NFPA-72 proprietary receiving and Central Station applications require the following additional equipment:

- A Simplex printer that is a UL-listed control unit accessory (4190-9013).
- A Sur-Gard System III DACR, Bosch D6600 DACR or AES Intellinet 7705i Receiver with Installation Manual, for Central Station Applications only.

DACR/TrueSite Workstation Limitations

The DACR supports the following protocol formats in the TrueSite Workstation:

- Ademco CID
- 3/1*
- 4-2*
- BFSK
- SIA level 1

Note: AES only supports Ademco CID

The TrueSite Workstation does not support the B32 Header option for TCP/IP messages. The TCP/IP for the DACR works with the configured TrueSite Workstation default settings. The TrueSite Workstation is able to receive messages from the DACR.

* Protocols are only available for security applications and signalling.

System Requirements, *Continued*

Electrical Input Ratings

The following ratings apply to selected system hardware:

Table 2-1: System Hardware Ratings

Order Number (Reference Only)	Equipment	Watts Maximum
4190-7007 or -7008	Computer	240
4190-7122	17" LCD Monitor	34
4190-7123	19" LCD Monitor	40
4190-7222	17" LCD Monitor w/TS	34
4190-7223	19" LCD Monitor w/TS	40
4190-7224	19" LCD Monitor without Rack Mount	40
4190-9013	Printer	240

Considerations

When you are locating the equipment, take into consideration anything that may affect the installation. You may want to consider the following items:

- Will it be difficult to run cables to the TrueSite Workstation?
- Will the equipment be installed in a dusty or dirty environment, or will the system be exposed to contaminants?
- Is the location close enough to any locations you might want to get to quickly?
- Is it a good location for future expansion?

Note for audio control: The TrueSite Workstation and the 4100U control unit must be located and grouped for viewing and operation by one person from one location.

System Requirements, *Continued*

Upgrading Existing Simplex IMS

Note: This section is only relevant if you are upgrading a Simplex IMS using a UL864 Listed PC to run the TrueSite Workstation Runtime application and TrueSite Workstation Configurator. Otherwise, if your Simplex UL864 Listed PC is up to date with the manufacturing implementation of new PC specifications, ignore the following instructions.

The Information Management System (IMS) requires an additional 512MB DIMM RAM module in order to run the TrueSite Workstation Runtime and Configurator applications. The appropriate hardware upgrades (4190-9812) and software upgrades (4190-9812) must be performed. The total amount of RAM required by TrueSite Workstations is 1GB.

To install the additional 512MB DIMM RAM, follow this procedure:

1. Backup the system and notify all building personnel and occupants that the IMS is going offline until system upgrade is completed.
 2. Shut down the Simplex UL864 Listed PC.
 3. Disable the power supply by pushing switch situated at the back of its case.
 4. Strip off the case of the tower by doing the following:
 - a. Remove the screws in the back of the unit. Keep them in a bag or a container to avoid losing them.
 - b. Once the screws are removed, slide the case forward.
 - c. Lift up the case to expose the components inside the PC tower.
 4. Locate the Single Board Computer (SBC) in the second slot.
 5. The RAM slots are situated on top of the board. Normally, there is a DIMM unit in the top slot.
 6. Install the RAM:
 - a. Make a note of how the existing unit looks.
 - b. Locate the little notches on the pin-side of the module. These notches (usually two) are lined up with keys on the memory socket itself to ensure proper alignment.
 - c. Place the module over the slot and press it in with the ejector clips in the open position. You must apply pressure and also support the back side of the SBC. As you press down, the module will sink into place and the ejector clips will close themselves to lock the module into place.
 4. Before you put the case back on, make sure that the amount of RAM tallies properly.
 - a. Enable the power supply and start the system.
 - b. After starting the system, select **Start -> Control Panel**. This brings up the Control Panel folder.
 - c. From the Control Panel folder, double-click the **System** icon.
 - d. The System Properties dialog appears. Verify the RAM capacity of the system under the General tab.
 5. After verifying that the new RAM amount, shut down the Simplex UL864 Listed PC.
 6. Put the case back on and secure it with the screws.
 7. Start the Simplex UL864 Listed PC.
-

Connecting the TrueSite Workstation to the System

Connecting the Equipment

Note: Be advised that the procedures described in this section are specific to the Simplex UL864 Listed PC.

After choosing the location for the equipment, you are ready to connect the equipment in preparation for the installation of the TrueSite software.

Note: If you need to install additional cards into the TrueSite Workstation, or modify existing card settings, please do so before connecting the equipment. One example is when you need to install PCI cards for a multiple-loop network.

To install the hardware, place the PC in the desired location and connect the equipment you will use with the system (printer, mouse, etc.). A typical TrueSite Workstation hardware configuration is shown in Figure 2-1.

Note: Verify that all the PC boards are firmly seated into the motherboard. This helps ensure that you have complete electrical connections.

The TrueSite Workstation rack-mount monitor is shown in Chapter 4.

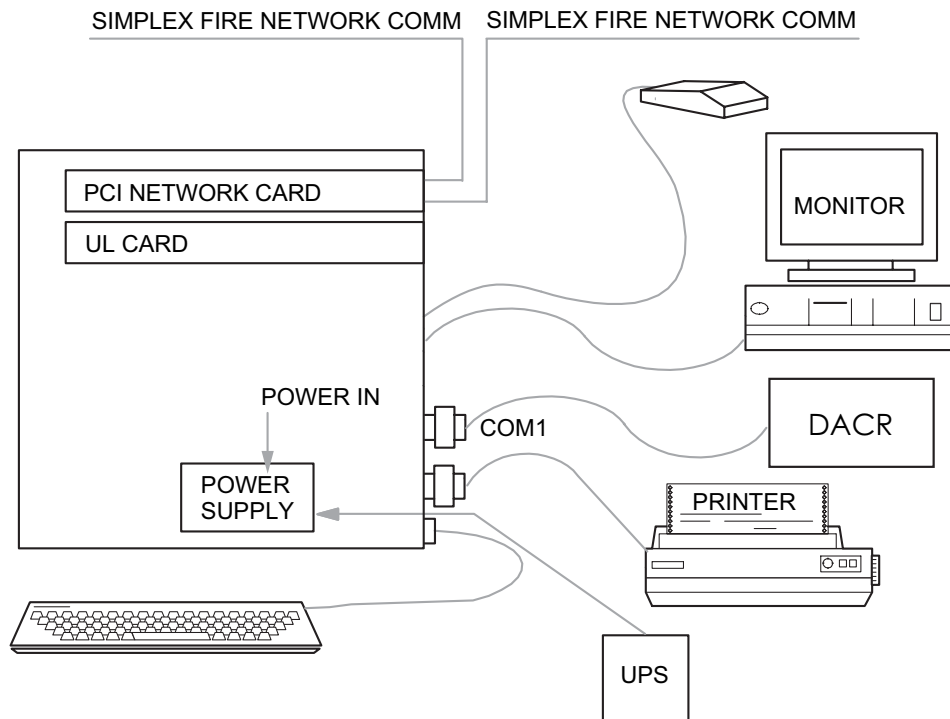


Figure 2-1 Example of Typical TrueSite Workstation System Configuration on a Simplex UL864 Listed PC, Block Diagram

Continued on next page

Connecting the TrueSite Workstation to the System, *Continued*

Connecting the Equipment, *Continued*

WARNING: Do not plug the keyboard or keyboard adapter into a powered unit! This will damage the CPU board. All equipment must be powered down before adding any hardware. As you connect the equipment, refer to the figures below and the instructions that follow.

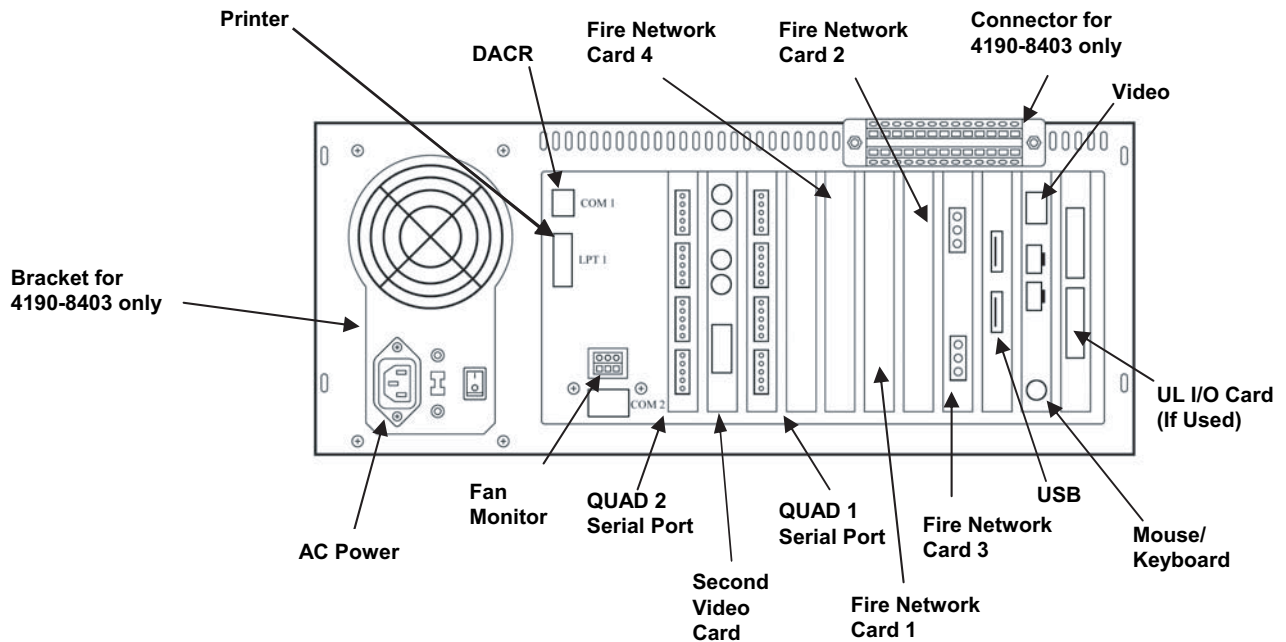


Figure 2-2 Simplex UL864 Listed PC Rear Panel Layout – 2.8 Ghz or Faster System using PCI Network Cards (Windows XP Platform)

Connecting a Touchscreen Monitor / Mouse

To connect a touchscreen monitor, position the monitor close enough to the PC so that you can connect the cables from the monitor to the PC and perform the following steps:

1. Connect the touchscreen controller cable to PC Serial Port, Com1 or Com2 is preferred.
2. Connect the other end of the cable to the touchscreen input connector on the back of the monitor.

To connect the mouse do the following:

1. Locate the mouse/keyboard connector on the back of the PC.
2. Plug the connector on the end of the mouse cable into the mouse/keyboard adapter cable on the PC.

Connecting the TrueSite Workstation to the System, *Continued*

Connecting the Keyboard

Connect the keyboard by completing the following steps:

1. Locate the mouse/keyboard connector on the back of the PC.
 2. Plug the connector on the end of the keyboard cable into mouse/keyboard adapter cable on the PC.
-

Connecting the Software Key

You need to have either a USB software key or a parallel dongle key.

- Connect the USB software key by inserting it into the USB port,
- Or, connect the parallel dongle key by inserting it into the parallel port.

Note: THIS SHOULD BE DONE AFTER THE SECURITY SERVICE SOFTWARE IS INSTALLED ON THE PC.

For instructions on installing the Security Service, refer to *Installing the Software Security System*, 579-825.

Connecting the Printer (Optional)

Connect the printer by performing the following steps:

1. Locate the serial Com port on the PC that was selected in the program.
2. Plug harness 733-937 into the printer and complete the connections per *4190-9013 Remote Printer Installation Instructions*, 579-233.

Note: These instructions are specific for connecting a serial port printer. To connect a parallel port printer, use a standard parallel port cable.

Connecting the Optional Uninterruptible Power Supply (UPS)

Note: A UPS (La Marche Series A-31 and A-36D) is required only for proprietary receiving station applications.

Connect the Uninterruptible Power Supply (UPS) by completing the following steps:

1. Plug the PC, printer, and monitor power cords into the AC outlet, which is integral to the equipment rack.
 2. Connect the dedicated branch circuit to the AC power input of the UPS.
 3. Connect the output of the UPS (in conduit) to the AC input terminals provided on the equipment rack.
 4. Connect the transfer contacts of the UPS to the first of the general-purpose I/O points on the UL I/O card (see diagram 841-947 for interconnection specifics).
-

Connecting to a Network

Complete the following steps for each network interface card you are installing. You can install up to four network interface cards in a TrueSite Workstation.

1. Locate the network interface card on the back of the PC.
 2. Connect the cable from the previous node's right port to the top connector on the network card.
 3. Connect the next node's left port to the bottom connector on the network card.
-

Chapter 3. Installing the TrueSite Software

Introduction

This chapter describes how to install the TrueSite Workstation software, which include the TrueSite Workstation Runtime application and the TrueSite Workstation Configurator.

In this Chapter

This chapter discusses the topics listed in the following table. Refer to the page number listed after the topic for information on that topic.

Topic	See Page #
Software Requirements	3-2
Installing the Software	3-3

Software Requirements

TrueSite Workstation Requirements

The following software is required for adequate TrueSite Workstation operation. In some instances, this software may have already been installed:

- Windows® XP operating system
 - Required software drivers (mouse, touchscreen, or printer drivers)
-

Optional Software

The following software may also be needed:

- 3M (Touchware) Touchscreen Controller Software Version 5.64 SR6 or later (the disk is included with the touchscreen)
 - Microsoft Intellipoint for the Microsoft Mouse, latest version
 - IOMEGA Tape Drive Software drivers disk (required if you are installing a TrueSite Workstation tape drive in the field)
-

Installing the Software

Installing Windows XP

If Windows XP operating system software must be installed on your computer, follow the instructions given in the Microsoft documentation for this product. After the Windows XP operating system has been installed, modify the computer for TrueSite Workstation operation in the following manner.

BIOS Setup:

Modify the BIOS Setup as follows:

1. During initialization, enter the BIOS SETUP by pressing the **DEL** key.
2. Select **PNP/PCI Configuration**.
3. Change IRQ 11 from PCI/ISA PnP to **Reserved**.
4. Select **Power Management**. Change ACPI Function to disabled.
5. Press <ESC>, "Save Changes and Exit."

Display:

Set the Display options as follows:

1. Click on the **Start** button and select **Settings**, then the **Control Panel** menu.
 2. Double-Click the **Display** icon.
 3. Under the Settings tab, set the "Desktop Area" to **1024 by 768 or greater and 32 Bit True color**. Click on **Apply**. Windows shows a test view of the new settings. If the new setting is accurate, click on **Accept Changes**.
 4. Under the **Screen Saver** tab, set the Screen Saver selection to **(None)**. (*Alarm messages on the computer screen can not be seen when the Screen Saver is running*)
-

Installing the Software, *Continued*

Installing Serial Touchscreen

This section describes the installation of the Serial Touchscreen software (driver) for Windows XP.

1. Connect the two cables from the Serial Touchscreen monitor to the PC.
 - a. Connect one cable to the connector labelled Video.
 - b. Connect the other cable to the serial connector, COM1 or COM2 is preferred.
 2. Check all other cables to ensure that they are secure.
 3. Connect the AC power cord from the monitor to an AC source.
 4. Turn on power to the PC and monitor.
 5. Locate the disk that contains the serial touchscreen drivers and insert it into the PC drive.
 6. From the Windows START icon, select RUN and BROWSE.
 - a. Go to the correct drive and select setup.exe.
 7. Follow the instructions and select the correct COM number. If the touchscreen is connected, it will auto-detect.
 8. Follow the directions on the screen. When calibrating, look for the red bull's eye in the center of the screen.
-

Installing the Software, *Continued*

Calibrating Touchscreen Software

This section describes how to calibrate Touchscreen software in Windows XP.

1. Click the **Start** button to invoke the Windows XP system menu, and choose **Settings**, then **Control Panel**.
 2. Double-click **Touchware** to run the Touchscreen Control Panel.
 3. Click the **Align** button and touch each of the three targets as they appear on the screen. Click **Yes** when the cursor lines up correctly with your finger.
 4. Click **OK** to close the Touchscreen Control Panel.
-

Installing the Optional Tape Drive Software from CD-ROM

Note: Tape drives are not supported in the Run-time software.

1. Insert the IOMEGA CD into the computer CD Rom drive.
2. Select the **Install** icon.
3. Follow the prompts on the screen.

Table 3-1: Tape Drive Software Installation Settings

Field	Setting/Action
Screen Selection	Color
Backup Install	Accept Default
Personalize your Company	Your Name Your Company
Tape Configuration	Start Test
Tape Configure	OK
Alert	Insert Tape and select Continue Backup
Compare Complete	OK
Compatibility Test Successful	OK
Configuration Test	OK
Backup AUTOSTART	NO
Update AUTOEXEC.BAT	OK
Update AUTOEXEC.BAT modifications	Save Changes
Update CONFIG.SYS	OK
Configure	Save
Backup Install	Reboot

Installing the Software, *Continued*

Editing the Windows WIN.INI file for Optional Tape Drive

Modify the WIN.INI file as follows:

1. Click on the **Start** button and select **Programs**, then **Command Prompt**.
2. At the **C:\WINDOWS>** prompt, type **EDIT WIN.INI** and press **ENTER**. The WIN.INI (Windows Initialization) file is displayed on the text editor screen.
3. Scroll to the line reading “Run=C:\QBWIN\DITTO.EXE.”
4. Place a semi-colon (;) at the beginning of this line. This prevents the command from executing when Windows starts.

Installing the Security Service

Please refer to *Installing the Software Security System, 579-825*, for instructions on installing the Key Security Service. This service is necessary for access to the program.

Note: The publication *Installing the Software Security System, 579-825* ships with the TrueSite Workstation.

Installing the TrueSite Software

- Notes:**
- Before installing the TrueSite software, make sure that Windows XP is installed.
 - You should install the new Network Programmer with TrueSite Workstation node support to configure the network. Refer to *Simplex Fire Network Programmer Installation and Programming Instructions, 579-166* for details on how to program the network.

The TrueSite Workstation CD contains a package with the following applications:

- TrueSite Workstation Runtime application
- TrueSite Workstation Configurator

The TrueSite Workstation is easy to install and requires less than 20 MB of free disk space on the target system. Minimum space requirements are automatically verified during installation and the installation process is terminated if the minimum system requirements are not met.

To install the TrueSite Workstation applications, complete the following steps:

1. Insert CD into the CD drive. In the case that the installation process does not start by itself do the following:
 - a. From the Windows XP **Start** menu, select **Run**. The system displays a command line dialog box.
 - b. On the command line, type **D:\truesiteworkstation.exe** (where D: is the CD drive letter) and select **OK**. The system displays the message Install Shield dialog box.

Continued on next page

Installing the Software, *Continued*

Installing the TrueSite Software, *Continued*

2. Follow the on-screen instruction to install the TrueSite software.

- Note:** Whenever available, you may click on the **Back** button to review and make changes to your selections from the previous dialogs, or click on the **Cancel** button to terminate the installation process before it completes.
- a. As the installation process initializes, a Setup Preparation dialog appears followed by a welcome dialog. To proceed with the installation, click **Next**.
 - b. An End-User License Agreement (EULA) Dialog appears as shown in Figure 3-1. You must scroll down and read through the agreement.
 - If you agree with the terms of the EULA, check the radio button next to “*I accept the terms of the license agreement*”, then click **Next** to proceed with the installation.
 - If you do not accept with the terms of the EULA, check the “*I do not accept the terms of the license agreement*” radio button and click **Next** to terminate the installation process immediately.



Figure 3-1 End-User License Agreement Dialog

- c. Once you've confirmed your agreement to the EULA, a Customer Information dialog prompts you to enter your username and company name as shown in Figure 3-1. Provide the required information and click **Next**.
- d. Enter the User Name and Company Name in the appropriate fields of the Customer Information screen (see Figure 3-1) and then click **Next** to continue.

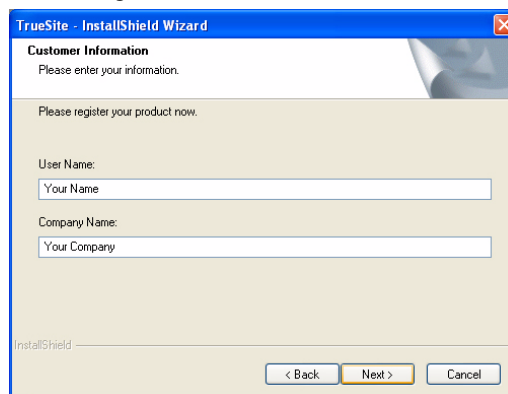


Figure 3-2 Customer Information Dialog

Continued on next page

Installing the Software, *Continued*

Installing the TrueSite Software, *Continued*

- e. The Program File Review dialog appears. This dialog allows you to review the programs files that are about to be copied. To proceed to the next step of the installation, click **Next**.
- f. A Ready to Install dialog appears. To proceed with the installation, click **Install**.
- g. While TrueSite Workstation applications are installing on the PC, a Setup Status dialog displays the installation progress.
- h. TrueSite installation is complete, the InstallShield Wizard Complete dialog appears as shown in Figure 3-3. Click **Finish**.

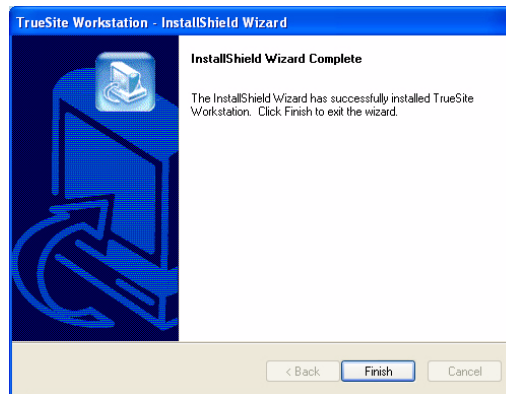


Figure 3-3 InstallShield Wizard Complete Dialog

3. Remove the CD from the drive and store it in a safe place for future use.
4. To automatically start TrueSite Workstation immediately after system reboot, place a TrueSite Workstation shortcut in the Startup folder for All Users.

Note: To prevent the TrueSite Workstation from starting, hold down the shift key when starting Windows.

Installing the Software, *Continued*

Requiring or Disabling Logon Password in Workgroup Setting

To require or disable a logon password in a workgroup setting:

1. Click **Start**, and then click **Run**.
2. On the Open box, type **control userpasswords2** and click **OK**:
 - Click the **Users must enter a user name and password to use this computer** check box to require users to provide this information when they log on.
 - Clear the **Users must enter a user name and password to use this computer** check box to allow a user to automatically log on. You will be prompted to provide the name and password of the users who will be automatically logged on each time the computer starts.

- Notes:**
- The **Users must enter a user name and password to use this computer** check box only appears if your computer is not connected to a network domain.
 - UL listed TrueSite Workstation cannot be connected to any TCP/IP network. The previous note does not apply to UL listed workstations.
 - You must be logged on as an administrator or a member of the Administrators group to make the modifications stated above.
 - Requiring users to enter a name and password provides secure protection for your computer. Windows XP verifies each account and provides access to the computer only if the information is correct.
 - If only one person uses the computer or the security risk is low, you might find it convenient to allow Windows XP to automatically log on each time that you start the computer.

Important: To meet the proprietary receiving station requirement, you must adhere to the **Important** note at the top of this page.

Chapter 4. Installing the TrueSite Workstation Rack-Mount Versions

Introduction

The TrueSite Workstation is available as a rack-mount.

In this Chapter

This chapter discusses the topics listed in the following table. Refer to the page number listed after the topic for information on that topic.

Topic	See Page #
Installing the Rack-Mount Components	4-2

Installing the Rack-Mount Components

Installation Procedure

The entire rack set-up is assembled and tested at the factory. After testing is completed, the PC and monitor are removed and packed in their original shipping cartons. The rails and any other additional items are left on the PC and monitor. The rack is then shipped as an assembled unit.

Complete the following steps to install the remaining components:

1. Secure the rack to the floor.
2. Separate the conduits for the entry of power-limited and non-power limited supply lines through the bottom plate (there is a label on the bottom plate showing the desired location for these supply lines).
3. Install the PC in the rack (the rails are already assembled) and secure it with 10-32 screws (supplied).
4. Plug the monitor power cord into the PC power outlet.
5. Plug the PC power cord into the surge protector.
6. Secure the power wires to the back left rail using the tie wrap provided (leave a minimum service loop for sliding of the PC).
7. Secure all other wires (non-power limited) to the back right rail using the tie wrap provided.
8. Connect the incoming AC line to the AC termination block.
9. After you have set up the Rack-Mount TrueSite Workstation, you can continue installing it on the network.

Continued on next page

Installing the Rack-Mount Components, *Continued*

Installation Procedure, *Continued*

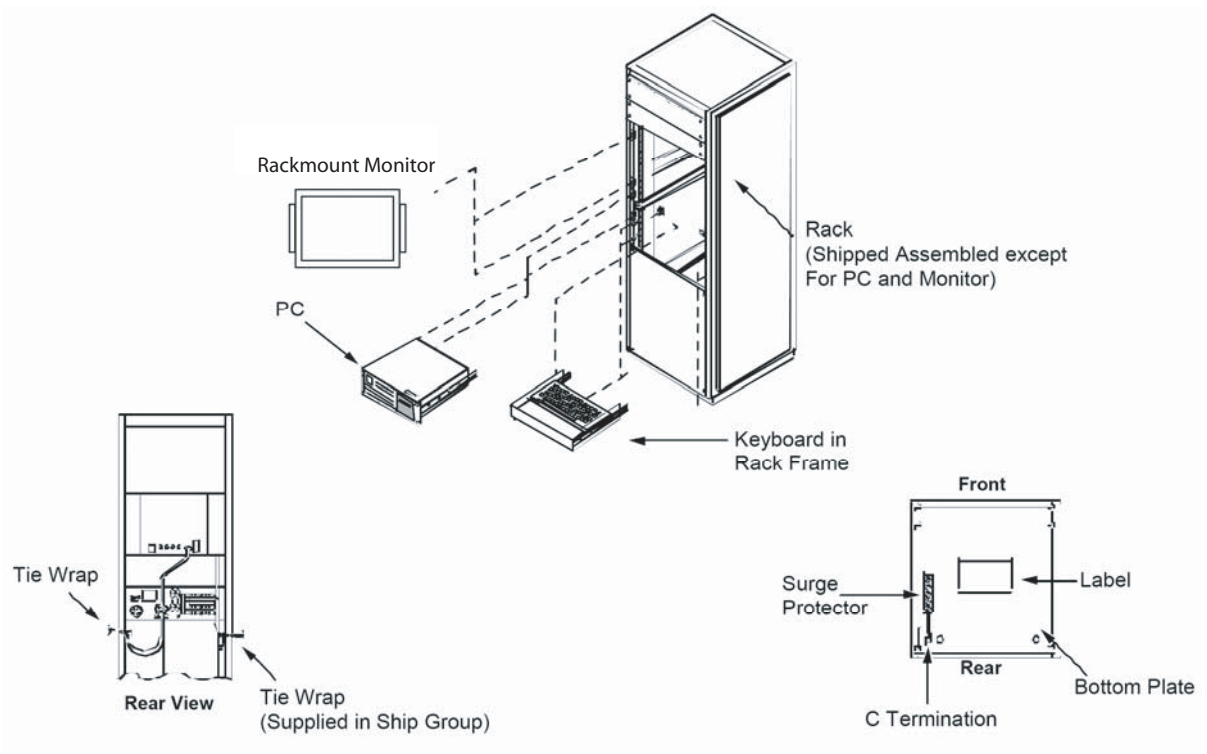


Figure 4-1 Rack-Mount Installation

Chapter 5. Connecting 2120 Nodes (Retrofit Application Only)

Introduction

This chapter describes how to connect 2120 nodes to a TrueSite Workstation using the existing RS232 Serial Port.

Note: Keep in mind that 2120 is Retrofit only. To connect 2120 nodes using the Multiport card, refer to the *SLI Multiport Option - Installation Instructions*, 574-097.

In this Chapter

This chapter discusses the topics listed in the following table. Refer to the page number listed after the topic for information on that topic.

Topic	See Page #
Installing and Operating the SPC 2120 Utility (Retrofit Application Only)	5-2
Configuring the Computer Ports	5-4
Hardware Requirements	5-7
Connecting the 2120 Nodes to the TrueSite Workstation	5-8
Adding 2120 Points (Retrofit Application Only)	5-10

Installing and Operating the SPC 2120 Utility (Retrofit Application Only)

Introduction

Note: Disregard this section if you do not have a 2120 interface.

This section describes the necessary steps to install and configure the 2120 Serial Point Collection Utility (SPC 2120).

For further information, consult publication *Multiport SLI Option Installation Instructions*, 574-097.

Installation Procedure

Use the following procedure to install the SPC 2120:

1. Insert the installation media into the appropriate drive. If you are using a Windows XP Operating System, open an MS-DOS command window by selecting the **Start** button, then the **all Programs** menu choice. Choose **Accessories** and then **Command Prompt** from the Program menu.
 2. From the **C:** or **C:\WINDOWS** prompt type **[drive name]:install** and press **Enter**.
 3. From the installation screen, select **I** to install the SPC 2120 or **E** to exit the installation.
 4. The SPC 2120 installation program then asks you where you wish the utility installed. The typical installation is installed in the **C:\SPC2120** directory.
 5. After a successful installation, the SPC 2120 installation program returns you to the DOS prompt.
-

Installing and Operating the SPC 2120 Utility, *Continued*

Operating the SPC 2120 Utility

Note: A serial cable must be connected from COM X of the PC to a 2120 Computer Port prior to running the SPC 2120 Utility.

To run the SPC 2120 Utility, type **SPC2120** [/option] from the **C:\SPC2120** directory. Typing SPC2120 without a specified option assumes a complete download from Port 1. The options are listed below.

- **/A** - Complete Download
- **/L** - Update Custom Labels
- **/P** - Update Priorities
- **/S** - Update Suppressions
- **/Nn** - Port number; n = the port number (only used as a file reference)
- **/H** or **/?** - Shows list of parameters (help)

In order to perform the updating options (/L, /P, or /S), a matching 2120_N.SLI (where “N” is the number of the 2120 node) file must already exist. When doing these updates, the point information is referenced from the existing 2120_N.SLI file. Then the specified update request information (/L, /P, or /S) is received from the 2120 and compared to the existing information before writing a new file. When doing a Complete Download, all information is received from the 2120. In both cases, the original file is backed up to 2120_N.SAV. If this file already exists, the program prompts you to enter a filename.

Once the SPC 2120 command is entered, the program asks you for a job name. You can type up to eight characters for a job name and press **Enter**. The SPC 2120 informs you when the system completes a successful download.

Before copying the SPC 2120 output file into the TrueSite Workstation/NPU directory structure, rename it from “2120IOOn.SLI” to the 2120 CMS file number **without the revision letter**. For example, if the CMS file number is “W123456A”, then rename the file from “2120IOOn.SLI” to “W123456.SLI”. Before an update option /L, /P, or /S can be performed, the file must be renamed back to “2120IOOn.SLI” for the SPC 2120 program to find an existing comparison file.

- Notes:**
- CMS stands for “**Conversational Monitor System**” which is a simple single-user operating system from IBM’s VM family. IBM mainframe computers that are used to program the 2120 usually run on the CMS operating system.
 - By default, the **CMS number** is the job name that is **printed on the very first page** of every 2120 program report.

Before starting the SPC 2120 program, make sure all points to be copied to the TrueSite Workstation are vectored to the download port. Only the points vectored to the 2120 download port will be copied to the output file.

- Notes:**
- Print class 1 points are vectored to all ports and print class 0 points are not vectored to any ports. Points that were print class 0 and do not need to be printed at the 2120 strip printer should be changed to print class 7 and then vectored to the download port.
 - When running the SPC 2120 program, the PC should be connected to the port on the 2120 that will be connected to the TrueSite Workstation at runtime.

Configuring the Computer Ports

Port Configuration Procedure

Use the TrueSite Workstation Configurator and the following steps to configure the RS232 ports to communicate with the 2120.

Note: All required hardware and software (e.g., controllers, drivers, etc.) must be installed before you can successfully complete the following configuration.

Use the following procedure to configure the RS232 ports.

1. From the Windows Start menu, select *All Programs -> Simplex -> TrueSite -> TSW -> TrueSite Workstation Configurator*. The system displays the Simplex Programming Unit screen.

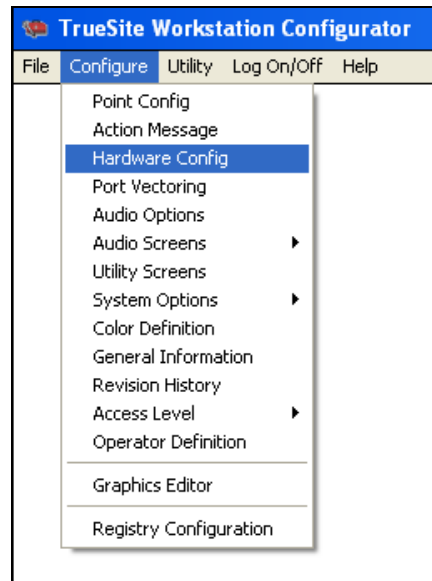


Figure 5-1 TrueSite Workstation Configurator Screen

2. From the Configure menu, select the Hardware Config option. The system displays the Hardware Configuration screen shown in Figure 5-2.

Continued on next page

Configuring the Computer Ports, *Continued*

Port Configuration Procedure, *Continued*

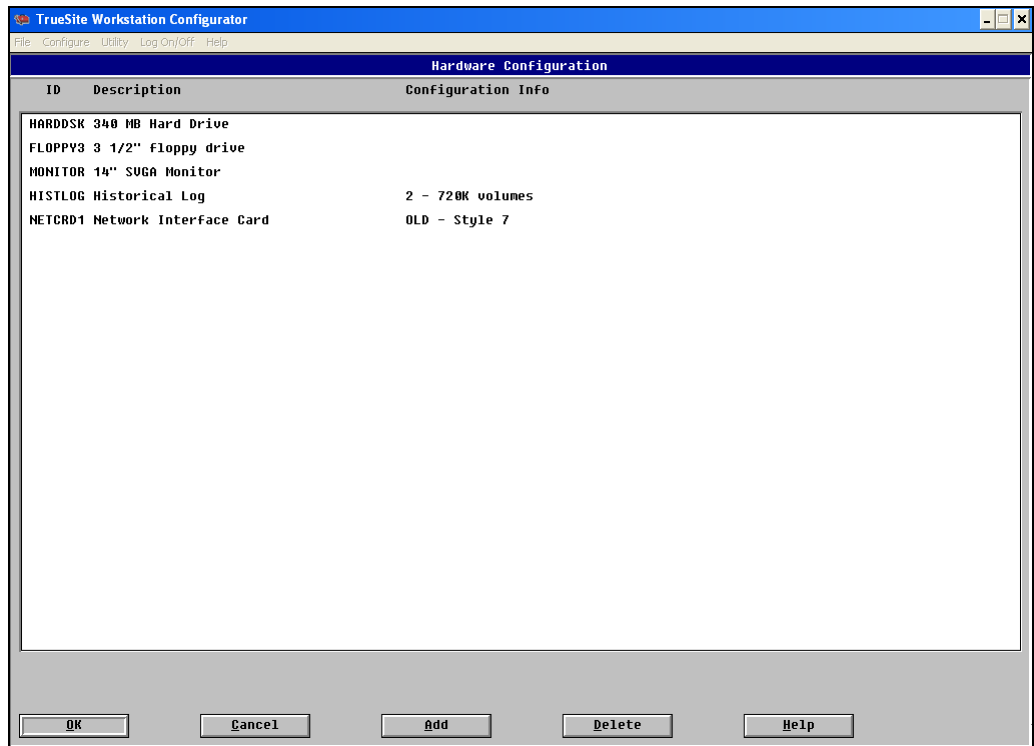


Figure 5-2 TrueSite Workstation Configurator Hardware Configuration Screen

3. Check the current hardware settings. To change a specific hardware setting, highlight the setting with your mouse and double click or use the **Up** and **Down** arrow keys to highlight the setting you wish to change and press **F2**. The system displays the Add Run-Time Hardware dialog shown in Figure 5-3.

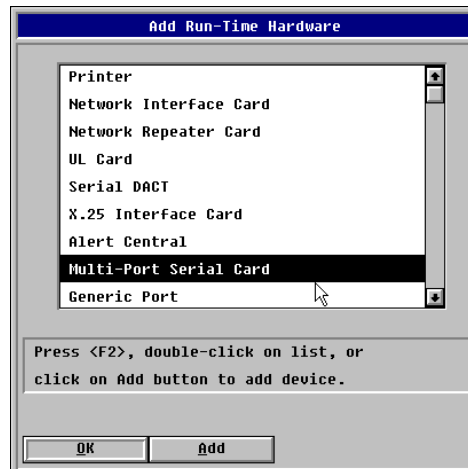


Figure 5-3 Add Run-Time Hardware Dialog

Continued on next page

Configuring the Computer Ports, *Continued*

- Port Configuration Procedure, Continued**
4. Use the mouse to highlight the option, and then select the **Add** button at the bottom of the screen to configure the port controller card. The system displays the Generic Port Configuration screen shown in Figure 5-4.

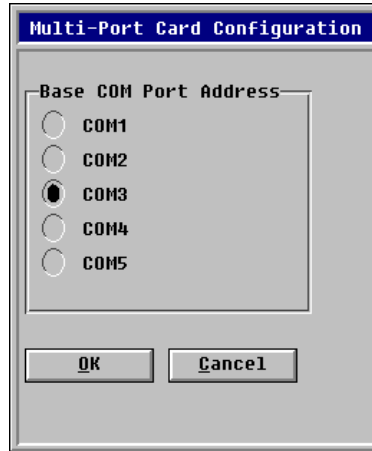


Figure 5-4 Multi-Port Card Configuration Dialog

5. Select an available COM port as the Base COM Port Address (**COM3** through **COM5**). Com 3 is recommended. When finished, select **OK**. The system returns to the original Configuration screen which now includes the Generic Port Serial Card.
6. Select **OK** at the bottom of the Configuration screen. The system prompts you to save the new configuration. Select **OK** to save, or select **Cancel** to cancel the configuration.

Note: Do not attempt to assign port directories or dump files until you have saved the new hardware configuration.

Hardware Requirements

Required Cables and Connectors

Table 5-1 lists the required cable and connectors to complete the installation. Figure 5-5 shows a diagram of how to connect the cables and connectors from the RS232 port on each 2120 node to the RS232 connector on the CPU.

Table 5-1: Cables and Connectors for TrueSite Workstation Installation

Part Number	Description
617-836*	6-foot (2 m) DB9 to DB25 adapter cable
733-571	Harness assembly (receptacle suppressor)
733-572	Harness Assembly (RS232 suppressor)

*If the RS232 ports on the TrueSite Workstation are DB25 male connectors, this adapter is not needed.

Connecting the 2120 Nodes to the TrueSite Workstation

Installing 2120 Nodes

To connect the 2120 nodes to the TrueSite Workstation, complete the following steps.

Note: Ensure that the power is OFF before starting this procedure.

1. Complete all wiring according to the wiring diagram.

- Notes:**
- If you are connecting the 2120 to the TrueSite Workstation with an adapter cable (using DB9 connector), refer to the diagram in Figure 5-5 for detail.
 - If you are connecting the 2120 to the TrueSite Workstation without an adapter cable (using DB25 connector), refer to the diagram in Figure 5-6 for detail.

2. Use the junction boxes at each end of the installed cable to terminate the field wiring between harness 733-571 and 733-572.

3. After connecting the node(s) to the TrueSite Workstation, turn the power ON. The TrueSite Workstation automatically boots up to the initial program screen.

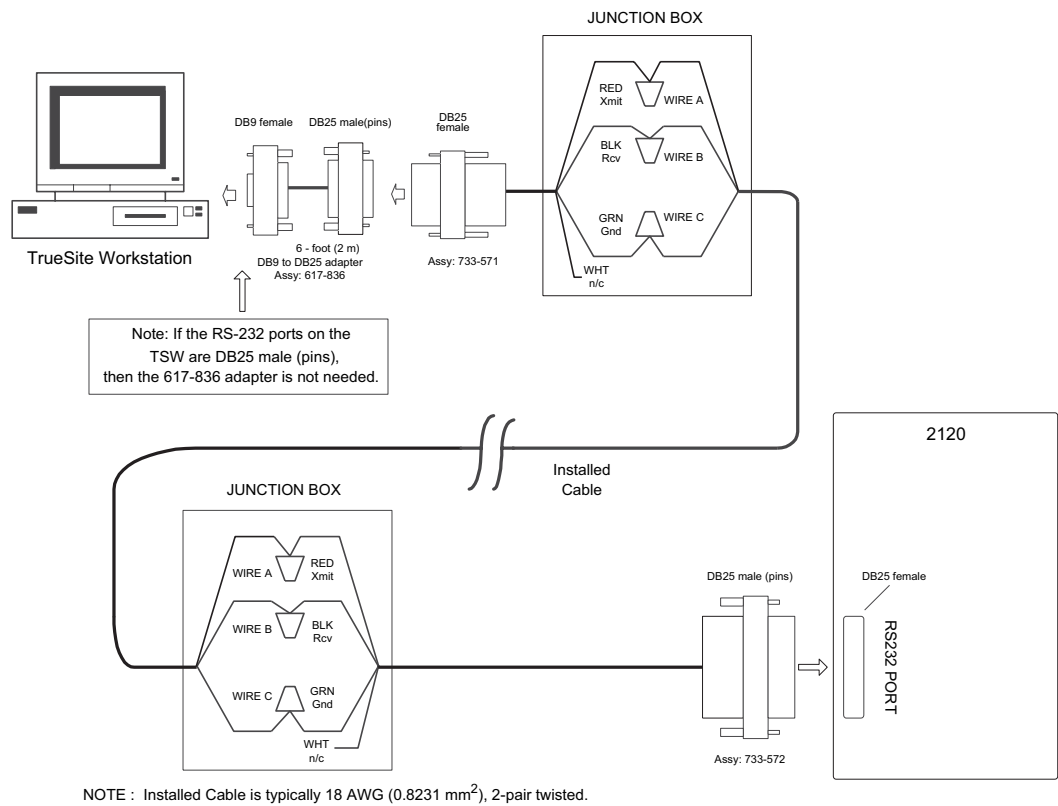


Figure 5-5 Connecting 2120 Nodes to the TrueSite Workstation

Continued on next page

Connecting the 2120 Nodes to the TrueSite Workstation, *Continued*

Installing 2120 Nodes, *Continued*

REAR VIEW OF QUAD SERIAL CARD 566-693 LOCATED INSIDE THE TSW

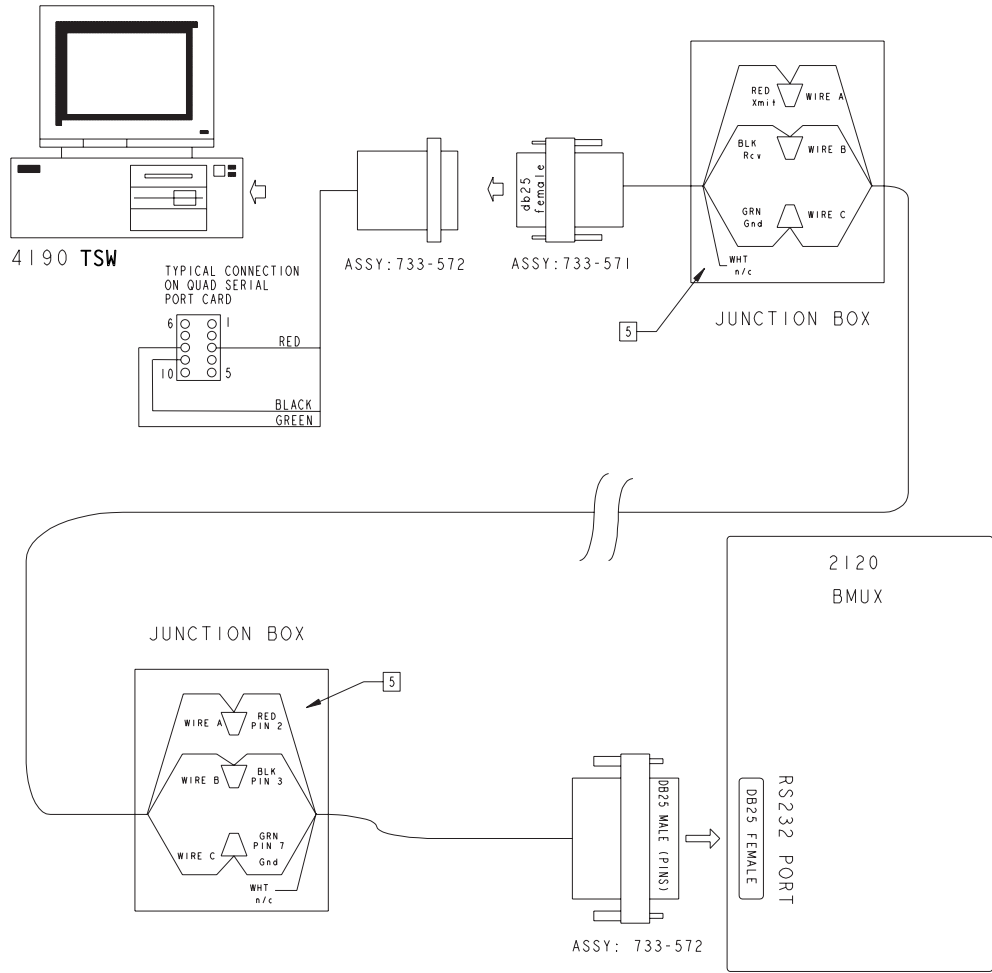
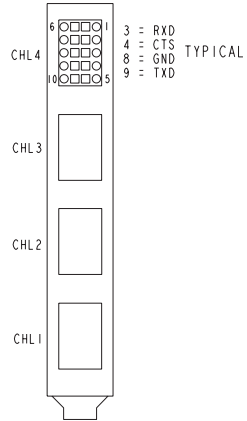


Figure 5-6 Connecting 2120 BMUX Nodes to the TrueSite Workstation

Adding 2120 Points (Retrofit Application Only)

How to Add 2120 Points to the Point Database and Network

Complete the following steps to add 2120 points to the network and to the point database.

1. Use Windows Explorer or File Manager to select the following directory: \netjobs\tst2120\n7
2. In Windows XP Explorer select New, then Folder from the File menu.
3. Name the new Folder or Directory 2120_1 for Port 1, or 2120_2 for Port 2.

Notes:

- Before copying the SPC2120 output file into the TrueSite Workstation/NPU directory structure, rename it from "2120IOOn.SLI" to the 2120 CMS file number without the revision letter. For example, if the CMS file number is "W123456A", then rename the file from "2120IOOn.SLI" to "W123456.SLI".

- The TrueSite Workstation scans the new directory for a .SLI file. The TrueSite Workstation learns this file name only once. Do not change the name after the directory has been scanned.
4. Copy the 2120 dump file to the new directory. The file extension must be .SLI in order for the TrueSite Workstation Configurator software to accept it.
 5. Return to the Start menu and select the TrueSite Workstation Configurator icon. The system is now aware of the new port configurations and has automatically added certain system, channel and transponder information into the hardware configuration.
 6. Select View from the Point Configuration screen and scroll past Point No. 52815 to display this information.
 7. From the TrueSite Workstation Configurator screen, select the Configure menu and select the Point Config option. The system displays the 2120 Port Selection dialog shown in Figure 5-7.

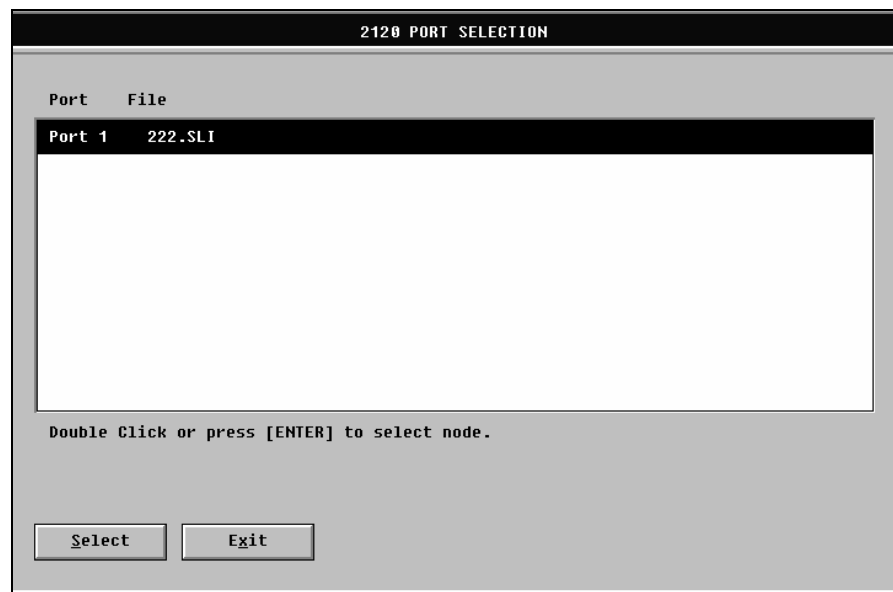


Figure 5-7 2120 Port Selection Screen

Continued on next page

Adding 2120 Points (Retrofit Application Only), *Continued*

How to Add 2120 Points to the Point Database and Network, *Continued*

- Select the ports you wish to configure and press OK. The system displays a tag list. (See Figure 5-8.)

Point Number	Point Name	Device Type	Point Type	Custom Label	Pr	Sp	Dev
001-704	NIGHTSN	DIGITAL	UTILITY	DAY-NIGHT SENS	3	1	P
001-705	ALDIRTY	DIGITAL	TROUBLE	DEVICE ALMOST DIRTY	T	1	P
001-706	CALTEST	DIGITAL	TROUBLE	CALIBRATION TEST	T	1	P
001-707	DISDRTY	DIGITAL	TROUBLE	DIS DIRTY REPORT	T	1	P
001-708	DISXDRT	DIGITAL	TROUBLE	DIS EXCESSIVE DIRTY	T	1	P
002-301	PGMTEST	DIGITAL	TROUBLE	PROGRAM IN TEST	T	1	P
002-308	PRI1BYP	DIGITAL	TROUBLE	PRIORITY 1 BYPASSED	T	1	P
002-501	LOFAIL	DIGITAL	TROUBLE	LOCAL PORT FAILURE	T	1	P
002-502	R2FAIL	DIGITAL	TROUBLE	REMOTE DEVICE 2 FAIL	T	1	P
002-503	R3FAIL	DIGITAL	TROUBLE	REMOTE DEVICE 3 FAIL	T	1	P
002-504	R4FAIL	DIGITAL	TROUBLE	REMOTE DEVICE 4 FAIL	T	1	P
002-505	R5FAIL	DIGITAL	TROUBLE	REMOTE DEVICE 5 FAIL	T	1	P
002-506	R6FAIL	DIGITAL	TROUBLE	REMOTE DEVICE 6 FAIL	T	1	P
002-601	LOCSUP	DIGITAL	TROUBLE	SUPPRESS LOCAL PRINT	T	1	P
002-602	NAMSUP	DIGITAL	UTILITY	NAME SUPPRESS OUTPUT	3	1	P
002-603	FORCEPL	DIGITAL	UTILITY	MON UPDATE NEXT POLL	3	1	P
002-608	FORCECL	DIGITAL	UTILITY	FORCE CONTROL UPDATE	3	1	P

Figure 5-8 2120 Points Tag List Screen

- Highlight each 2120 point and press the space bar after selecting each point. When you are finished making your selections, press OK. The system displays the Port Selection screen.

Note: Monitor Points are default mapped to the TrueSite Workstation/NPU by priority only.

- 2120 PRI1 points (FIRE) are mapped as TrueSite Workstation/NPU FIRE
- 2120 PRI2 points (SECURITY) are mapped as TrueSite Workstation/NPU GENPRI2
- 2120 PRI3 points (UTILITY) are mapped as TrueSite Workstation/NPU UTILITY

This may result in points being incorrectly mapped at the TrueSite Workstation/NPU.

- 2120 "F" sense points must be changed to TROUBLE at the TrueSite Workstation/NPU
- 2120 "V" sense points must be changed to VERIFIED at the TrueSite Workstation/NPU

- To add 2120 user points, use point numbers between 2816 and 52815, then press the Add button at the top of the screen.
- Select the Exit button to return to the Select Category screen or select OK to return to the Point Configuration screen. The system displays the new 2120 points with LC2 as the class. To change the class to Public, highlight the Class field that you want to change and press the Up and Down arrow keys to toggle between the classes.
- At this point, you can save the database and build using the standard method.

Chapter 6. Connecting DACRs

Introduction

This chapter describes how to connect DACRs (Digital Alarm Communicator Receivers) to an TrueSite Workstation using the existing RS232 Serial Port. The three DACR models that are supported are the Sur-Gard System III DACR, the Bosch D6600 DACR and the AES Intellinet 7705i Receiver.

In this Chapter

This chapter discusses the topics listed in the following table. Refer to the page number listed after the topic for information on that topic.

Topic	See Page #
Configuring the TrueSite Workstation to Communicate with DACRs	6-2
Connecting DACRs to the TrueSite Workstation	6-3

Configuring the TrueSite Workstation to Communicate with DACRs

Adding the DACR Port

You must configure the TrueSite Workstation to communicate with the DACR. To start, you need add the DACR port. To do so, you:

1. Select the hardware configuration item from the Configuration Menu.
2. Hit the Add Button.
3. Select DACR Port.
4. In the DACR Port dialog box, select the COM port that is connected to the DACR.

Note: Refer to page 6-7 for details on the other fields in the DACR port dialog (depending on which model is used).

5. Select OK before saving and exiting the Hardware Configuration Screen.
-

Adding DACR Accounts and Points

Next, you need to add accounts and points. To do so, you:

1. Select Point Configuration from the Configuration Menu.
2. Scroll to an empty point in the user area.
3. Press the Add Button.
4. Press the DACR Points Button.

You are then prompted with three choices: Add Event Account, Manual Point Entry, and Import CID Points. Depending on what communication format is being used by the DACT for the panel and on what type of information you want annunciated at the TrueSite Workstation, select the appropriate button. The reporting protocol formats supported by the TrueSite Workstation are: Ademco CID, 3/1, 4-2, BFSK, and SIA level 1.

Note: AES only supports Ademco CID

Connecting DACRs to the TrueSite Workstation

Adding the Event Account

You need to add an event account if the panel for the account that you are configuring is a format other than CID, or the format is CID but you don't care to annunciate events at the per point level. In

this configuration, the TrueSite Workstation will indicate a FIRE, PRI2, Supervisory, or trouble condition at the panel but will not indicate the specific device that initiated the alarm condition.

To add an event account, do the following:

1. Enter the Account number being used by the dialing panel.
2. Enter a label indicating the location of the panel.

Note: When configuring the TSW with an AES Intellinet system you must add the following accounts representing vital AES components, which are listed in the table below.

Port Number	Account Number	Account Label
1	User Defined Account # for AES receiver	AES Receiver
1	User Defined Account # for AES IP Link	IP Link

Entering Points Manually

If you want to enter a few points manually and the dialing panel is Contact ID, you must do the following:

1. Enter the Account number being used by the dialing panel.
2. Enter a label indicating the location of the panel. (This step is only necessary the first time that you enter a point for this account. Subsequently, the label will be automatically filled once the account number is entered).
3. Enter the CID Group for the point that you are configuring.
4. Enter the CID Point number for the point that you are configuring.
5. Select the device type for how you want to annunciate this device.
6. Select the point type for how you want to annunciate this point.
7. Enter a label to identify the location of the configured point.

Note: For AES, use the following:

Port #	Account #	CID Group	CID Point	Device Type	Point Type	Point Label
1	User Defined Account # for AES IP Link	0	906	MONB	TROUBLE	Tamper Switch

Importing CID Points

If you want per-point annunciation and have a comma-separated file describing the point information for a CID account, you must do the following:

1. Enter the account number being used by the dialing panel.
2. Enter a label to indicate the location of the panel. (This step is only necessary the first time that you enter a point for this account. Subsequently, the label will be automatically filled once the account number is entered).

Connecting DACRs to the TrueSite Workstation, *Continued*

Importing CID Points, *Continued*

3. Select the .csv file to import.

Note: The format of the .csv file is described below.

In order to import Contact-ID points from an external .csv file, the person programming will have had created a dedicated DACR subdirectory in the IMS node's database directory. The general naming scheme for the DACR subdirectory will be

```
..\netjobs\<<networksite>\<tswnodename>\DACR_1\
```

Note: All CID account .csv files pertaining to the first DACR will be placed into the DACR_1 directory.

The Import file contains the following fields.

```
<Line #[Optional]><Account # [Optional]>, <CID GROUP[required]>, <CID NUMBER[required]>,  
<Point Type[Optional]>, <Label[required]>, <Alarm Category[Optional]>
```

Fields listed as optional must have the comma inserted for that field but can be left blank other than the comma.

If the point type field is present and it matches a valid IMS point type, that point type will be used. If no point type is present and the Alarm category field is present, the FIRE, PRI2, SUPERV, TROUBLE, or UTILITY point types will be used to match the category assigned. If neither is present, the point will default to MONB - FIRE.

Category Interpretation.

F (fire) = MONB - Fire

P (priority 2) = MONB - GenPri2

S (supervisory) = MONB - Superv

T (trouble) = MONB - Trouble

U (utility) = MONB - Utility

O (output) = SIGB - SIGNAL

Installing DACR

To connect a DACR to the TrueSite Workstation, complete the following steps.

Note: Ensure that the power is OFF before starting this procedure.

1. Complete all wiring according to the wiring diagram.

Notes:

- If you are connecting the DACR to the TrueSite Workstation with an adapter cable (using DB9 connector), refer to the diagram in Figure 6-1 for detail.
- If you are connecting the DACR to the TrueSite Workstation without an adapter cable (using DB25 connector), refer to the diagram in Figure 6-2 for detail.

2. Use the junction boxes at each end of the installed cable to terminate the field wiring between harness 733-571 and 733-572 (or 734-216 for AES).

Note: The total wiring length from the RS232 port of the CPU to the RS232 port of the DACR must not exceed 20 feet (610 cm) and must be run within conduit or equivalently protected against mechanical injury. Also, the TrueSite Workstation and DACR must be located in the same room. See page 6-5 for specifics on each receiver type

Connecting DACRs to the TrueSite Workstation, *Continued*

Installing DACR, *Continued*

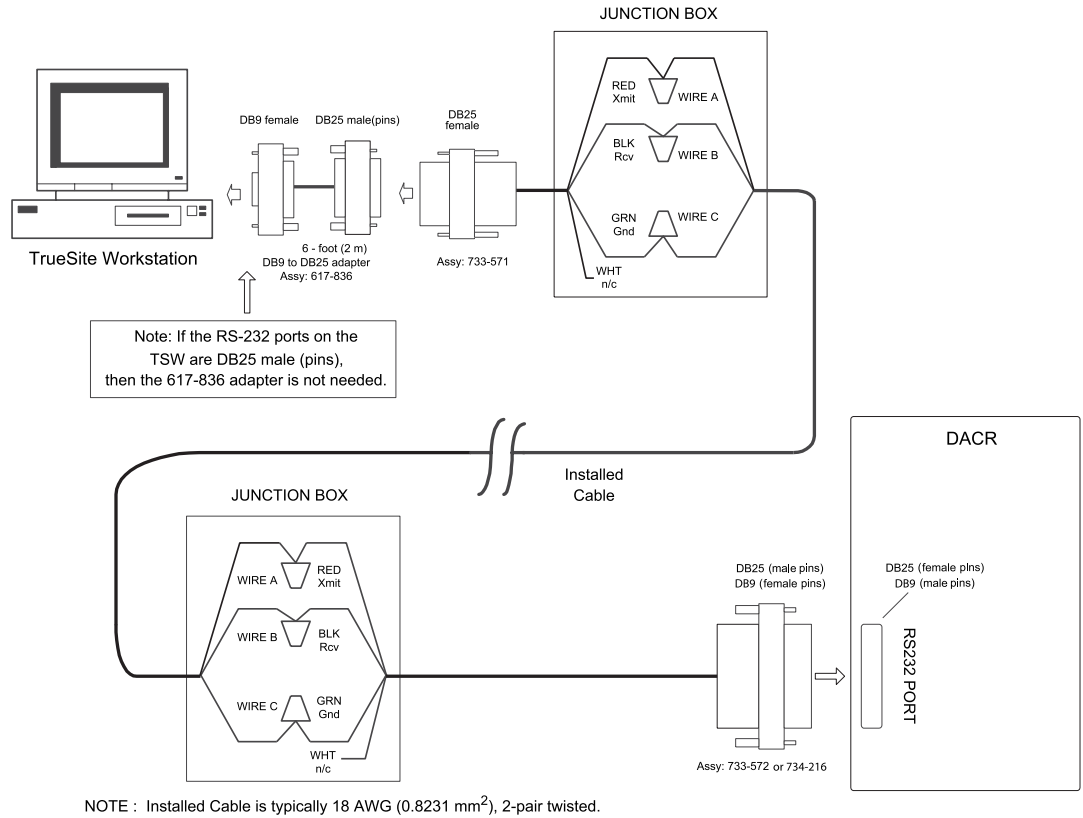


Figure 6-1 Connecting DACR to the TrueSite Workstation with Adapter Cable

Continued on next page

Connecting DACRs to the TrueSite Workstation, *Continued*

Installing DACR *Continued*

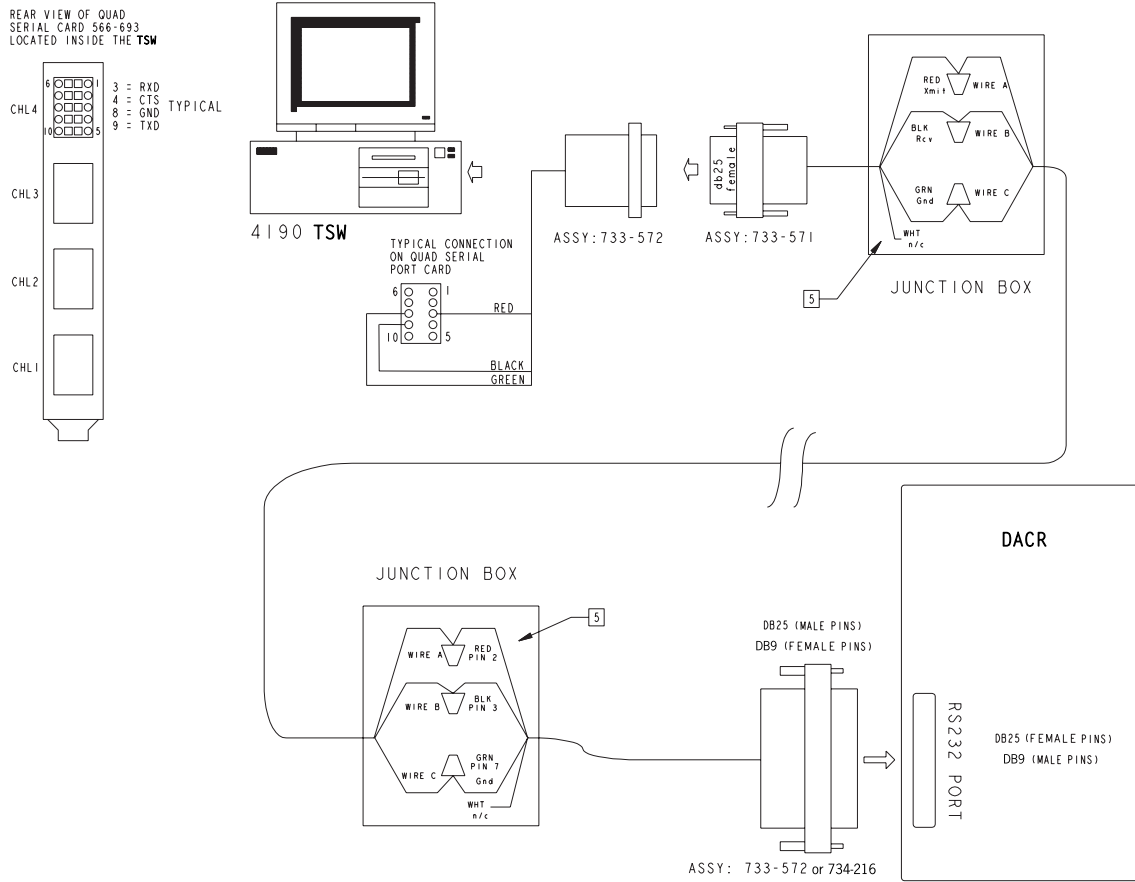


Figure 6-2 Connecting DACR to the TrueSite Workstation without Adapter Cable

Connecting DACRs to the TrueSite Workstation, *Continued*

Configuring System III DACR Options

1. After connecting the DACR(s) to the TrueSite Workstation, turn the power ON.
 2. Press **ENTER** to bring up the login screen.
 3. Enter CAFÉ at the access code screen.
 4. Select the desired menu item:
 - System Functions: To change Date and Time
 - Line Card Programming: To program the line card
 - CPM Options
 - Set com settings
 - 07 – Baud rate: 9600
 - 08 – Data bits: 8
 - 09 – Parity: 0
 - Set heartbeat timer from 30 to 20
 - 12 – heartbeat timer: 20
 - Set number of line cards
 - 2E – number of line cards
-

Configuring Bosch D6600 DACR Options

1. After connecting the DACR(s) to the TrueSite Workstation, turn the power ON.
 2. Press M/E to log on.
 3. Enter 6600 and then M/E at the access code screen.
 4. Use the arrow keys to scroll and M/E to select the desired menu item:
 - 2 CPU Configuration
 - **Global**
 - Time Setup
 - Date Setup
 - **COM3 Automation Configuration**
 - Baud Rate: 9600
 - Data Bit: 8
 - Parity: 0
 - Stop Bit: 1
 - Link Test: 30
-

Configuring AES Intellinet 7705i Receiver Options

1. The AES Intellinet 7705i Receiver is preset with the following COM configurations:
 - Baud Rate: 1200
 - Data Bits: 7
 - Parity: ODD
 - Stop Bits: 2
 2. Refer to the AES Intellinet 7705i Receiver document number 40-7705I-IS for setup information for the receiver.
 3. For UL Central Station Burglar Alarm Applications, opening/closing signals require an alternate communications means that provides for premises acknowledgement/ringback. Refer to the Intellinet Installation Instructions for details.
-

Chapter 7. Jumpers, Interrupts, and Switch Settings

Introduction

Note: This chapter applies specifically to Simplex UL864 Listed PC stations.

This chapter provides information about installing boards (cards) in the TrueSite Workstation. The TrueSite Workstation is usually shipped with the cards installed. However, if you do need to install a card or modify a configuration, you may find this information helpful. The jumper, switch and IRQ settings for the following cards are described in this appendix:

- Media cards for RS232 and wired configurations
- UL I/O Card
- Network Interface card(s)

In this Chapter

This chapter discusses the topics listed in the following table. Refer to the page number listed after the topic for information on that topic.

Topic	See Page #
Interrupt (IRQ) Settings	7-2
Jumper Settings	7-4
Switch Settings	7-5
Configuring the Devices	7-6
Interfacing with the Simplex Fire Network	7-7
Installing Cards and Jumpers	7-9
Installing the Second Video Card	7-11
Disabling the Reboot Watchdog	7-14

Interrupt (IRQ) Settings

Recommended Interrupt (IRQ) Settings

This section describes the interrupt settings for the TrueSite Workstation. Table 7-1 lists the recommended IRQ settings for the TrueSite Workstation.

Note: Make sure that COM1 and COM2 are enabled. Use the Ports icon in the Control Panel Group to make these changes.

TrueSite Workstation IRQ Settings

Table 7-1 show the recommended TrueSite Workstation IRQ settings.

Table 7-1: Device IRQ Settings for Configurations Basic through 23

Configuration

	Basic	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
PS/2 Mouse	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Parallel Port	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
PC COM1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	**	**	**	**	**	**	**	**
PC COM2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	**	**	**	**	**	**	**	**
Serial Touchscreen*																	**	**	**	**	**	**	**	**
Tape Backup			15	15			15	15			15	15			15	15			15			15		15
UL I/O**									11	11	11	11	11	11	11	11					11	11	11	11

Note: *If the Serial Touchscreen is used on PC COM1, use IRQ 4. (PC COM1 is now unavailable for other use.) If the Serial Touchscreen is used on PC COM2, use IRQ 3. (PC COM2 is now unavailable for other use.)

Note: **Port A and Port B are not available.

In the BIOS settings, IRQs 11 should be set to Reserved. The exact setting depends on the options available in the BIOS.

Interrupt (IRQ) Settings, *Continued*

Possible IRQ Settings

Table 7-2 lists the possible IRQ settings for the TrueSite Workstation.

Table 7-2: TrueSite Workstation Device - Reference IRQ Settings (see Table 7-1 for recommended settings)

TrueSite Workstation Device	Possible IRQ Settings								
	2/9	3	4	5	7	10	11	12	15
Parallel Port					X				
PS/2 Mouse								X	
Tape Backup									X
Serial Touchscreen		X	X						
Network Card or Repeater (ISA)	X					X	X		X
UL/IO	X			X		X	X	X	X
PC Serial COM1			X						
PC Serial COM2		X							

Jumper Settings

RS232 Media Card (P/N 565-327) Table 7-3 lists the jumper configurations for all RS232 media cards.

Table 7-3: RS232 Media Card - Jumper Positions

Jumper	Function	Position
P3	Network Media Motherboard	1-2 (default)
	Service Port	2-3
P4	Media Mother Board	1-2 (default)
	Network and Service Port	2-3
P5	Supervised	1-2 (default)
	Unsupervised	2-3

Wired Media Card (P/N 565-413) Table 7-4 lists the jumper configurations for all wired media cards.

Table 7-4: Wired Media Card - Jumper Positions

Jumper	Function	Position
P2	18 AWG (0.8231 mm ²) Cable	1&2
		3&4
		5&6
		7&8
	24 AWG (0.2047 mm ²) Cable	3&4

Fiber Optic Media Assembly There are no jumpers on the fiber optic media assembly.

Switch Settings

UL I/O Card (P/N 565-283)

This section explains how to configure the UL I/O Card (Model 4190-8403 TrueSite Workstation only). Ensure that the switches are set on the UL I/O Card as listed in Table 7-5 and Table 7-6.

Table 7-5: UL I/O Card - Host Address I/O Selection Via SW1

Switch	State
SW1-1	OFF
SW1-2	OFF
SW1-3	OFF
SW1-4	OFF

Table 7-6: UL I/O Card - Configuration Via SW2

Switch	No COM Ports (No Daughter Cards - Default)
SW2-1	OFF
SW2-2	OFF
SW2-3	OFF
SW2-4	OFF
SW2-5	OFF
SW2-6	OFF
SW2-7	OFF
SW-8	OFF

Configuring the Devices

Configuring Device Drivers for Windows XP

To configure device drivers for Windows XP, complete the following steps:

1. Start the TrueSite Workstation Network Configurator.
2. Load Job Configuration.
3. Select the Registry Configuration from the Configure menu.
 - When the Configuration dialog box appears, click the Apply button, exit the configurator, and reboot the computer.

Quad Serial Port Card

Up to 2 Quad Serial port cards can be installed. Refer to Figure 2-2 for location. The cards are Plug and Play.

1. With the unit powered down insert the Quad Serial card and apply power.
2. Plug and Play will display “New Hardware Found”. Select **Next, Next**, and Specify Location.
3. Browse to “Downloads” “Quad Serial Win2K XP, Ser 15x”
4. Select **Open, OK, Finished**.
5. A new message, “Found New Hardware” will be displayed.
6. Browse to “Downloads”: “Quad Serial Win2K XP, X8790 Port”.
7. Select **Open, OK, Finished**. Ports 3-6 are now loaded.
8. If a second card is needed. Repeat steps 1 and 2. The drivers will be automatically loaded. Ports 7-10 are now loaded.

Note: Port 10 cannot be used by TSW; if your application requires eight separate 2120 connections, then you will need to disable COM2 using the Windows Device Manager before adding two Quad Serial Port cards.

Interfacing with the Simplex Fire Network

Network Interface Card

This section explains how to install the 655-273 Network Interface Card (Wired) or the 655-272 Network Interface Card (Modular).

You can install up to four Network Interface Cards into one PC to support a multi-network configuration. Each Network Interface Card can support one network containing up to 98 nodes. TrueSite Workstation can support up to four networks consisting of up to 392 nodes. Ensure that the jumpers are set to the positions listed in Table 7-7 and Table 7-8 for each network card used.

Table 7-7: Network Interface Card - Jumper Positions

655-272 & 273 Network Card		
Jumper	Position	Function
P1	1-2	57600 Baud
	2-3	9600 Baud
P2	1-2	9 bit
	2-3	8 bit
P6	1-2	Bypass Disabled
	2-3	Bypass Enabled (default)

Table 7-8: Network Interface Card - Setting Card Address range in the Programmer

Address Range	SW2-4	SW2-3	SW2-2	SW2-1	Device
200-207					Reserved for UL I/O Card
2B0-2B7					Network Card #1 (default)
2B8-2BF					Network Card/Repeater* #2
2C0-2C7					Network Card/Repeater* #3
2C8-2CF					Network Card/Repeater* #4
2D0-2D7	OFF	ON	OFF	ON	TBD
300-307	OFF	ON	ON	OFF	TBD
308-30F	OFF	ON	ON	ON	TBD

*A Network Repeater card cannot serve as the network interface for point changes on the network.

Note: Address Range 200-207 must be selected for the UL I/O card.

Interfacing with the Simplex Fire Network, *Continued*

Network Interface Card Installation Sequence

To properly install the Network Interface card, follow one of the two sequences presented below based on the scenario.

PRIMARY SCENARIO

If the user does not have the '3.3/5V PCI Card Driver' CD-ROM, follow this procedure:

1. Backup the system and notify all building personnel and occupants that the IMS is going offline until system upgrade is completed.
2. Shut down the Simplex UL864 Listed PC.
3. Disable the power supply of the Simplex UL864 Listed PC by pushing switch situated at the back of its tower.
4. Strip off the case of the tower by doing the following:
 - a. Remove the screws in the back of the unit. Keep them in a bag or a container to avoid losing them.
 - b. Once the screws are removed, slide the case forward.
5. Lift up the case to expose the components inside the PC tower.
6. Insert the Network Card in the PCI slot and power the PC back up.
7. Wait for "Found New Hardware" dialog message to appear.
8. The dialog appears and displays: "Can Windows connect to Windows Update to search for software?" In the prompt, select "No, not this time".
9. Select "Install from a list or specific location (Advanced)".
10. Select the "Don't search" radio button, then click **Next**.
11. There are two possibilities:
 - a. If the message "Simplex PCI Network Interface Card 3.3V" does not show up in the list of compatible hardware, proceed to Step 9.
 - a. Otherwise if the message appears, click **Next**.
12. Click **Have Disk**.
13. Browse to `C:\Windows\system32\drivers\simplex.inf`, click **Open**, and then click **Next**.
14. Click **Yes** for the "Update Driver Warning".
15. You will receive the following message: "has not passed Windows Logo testing". Choose **Continue Anyway**.
16. Once the installation is complete, click **Finish** and restart the PC.

SECONDARY SCENARIO

If the user has the '3.3/5V PCI Card Driver' CD-ROM, follow this procedure:

1. See Steps 1 through 5 above.
 2. Insert the Network Card in the PCI slot and power the PC back up.
 3. Place the '3.3/5V PCI Card Driver CD-ROM' in the CD-ROM drive.
 4. Wait for "Found New Hardware" dialog message to appear.
 5. The dialog appears and displays: "Can Windows connect to Windows Update to search for software?" In the prompt, select "No, not this time".
 6. Select "Install Software Automatically (Recommended)".
 7. After the wizard finds the PCI Network Interface Card, you will receive the following message: "has not passed Windows Logo testing". Choose **Continue Anyway**.
 8. Once the installation is complete, click **Finish** and restart the PC.
-

Installing Cards and Jumpers

Inserting and Connecting Cards in the TrueSite Workstation

This section explains how to insert cards and connect the cables to the TrueSite Workstation Desktop Models 4190-8402 and 4190-8403. Table 7-9 and Table 7-10 list the correct slot positions in the TrueSite Workstation backplane.

Table 7-9: TrueSite Workstation Desktop Models - Card Slot Positions

Card	Slot #
SBC	Slot #2
Network Card	See page 2-6

4190-8403 - Card Slot Positions

This section provides information about installing the cards and connecting the cables for the 4190-8403. Table 6-10 lists the correct slot positions in the TrueSite Workstation backplane for the Network Card(s), Controller Card and UL I/O Card. Refer to Figure 2-2

Table 7-10: TrueSite Workstation Desktop Models - Card Slot Positions

Card	Slot #
SBC	Slot #2
UL I/O Card	Slot #1 (furthest from P.S.)
Network Card	See page 2-6

Installing Cards and Jumpers, *Continued*

Continuity Check for Model 4190-8403 with UL I/O Card Installed

For 4190-8403 TrueSite Workstation systems with the terminal block mounted to the PC chassis, verify the information listed in Table 7-11.

Table 7-11: TrueSite Workstation 4190-8403 Model with UL I/O Card - Device Connection Points for Outputs 1 & 2

Location	Value	Function
TB1-2 to TB1-4	Short (<1 ohm)	Output #1 Relay Normally Closed
TB1-8 to TB1-10	Short (<1 ohm)	Output #2 Relay Normally Closed
TB1-4 to TB1-6	Open Circuit	Output #1 Relay Normally Closed
TB1-10 to TB1-12	Open Circuit	Output #2 Relay Normally Closed

Verifying Tape Drive Installation

Verify that the tape drive has been installed, as follows:

1. Verify that no jumper exists on the tape drive jumpers DSP, DS0, or DS1.
2. Install the Tape Drive into the TrueSite Workstation as defined in the IOMEGA instruction manual.
3. Disconnect the connector from the TrueSite Workstation floppy and connect it to the connector on the tape drive.

Reboot Watchdog

If a UL I/O Card (P/N 565-283) is installed and you want to exit the TrueSite Workstation application because you plan to run other applications, run the Watchdog32 application from the Start menu to disable the reboot watchdog on the UL I/O Card. Disabling the reboot watchdog prevents the PC from rebooting.

Installing the Second Video Card

Installation Procedure

In order for the TrueSite Workstation to support the dual monitor, a second video card must be installed.

Complete the following steps to install the second video card to support the dual monitor option:

1. Start the PC.
2. Hold down the **Delete** key to interrupt the boot process. This bypasses the boot sequence and redirects you to the BIOS.
3. Disable the on-board VGA:

For the 4190-7007 or 4190-7008 PC:

- a. In BIOS, select “Advanced Chipset Features”.
- b. Set “Init Display First” to [PCI Slot].
- c. Set “On-Chip VGA” to [Disabled].
- d. Save and exit BIOS.

For the 4190-7005 or 4190-7006 PC:

- a. In BIOS, select “Integrated Peripherals”.
- b. In “Integrated Peripherals”, make sure “Init Display First” is set to [PCI].
- c. Save and exit BIOS.
- d. Shut down the PC.
- e. With the unit powered off, disable the on-board VGA by placing a jumper on J3 of the Single Board Computer (SBC) (see Figure 7-1). Insert the NVIDIA Video-338PCI-DVI (video card in PCI slot 3-3).

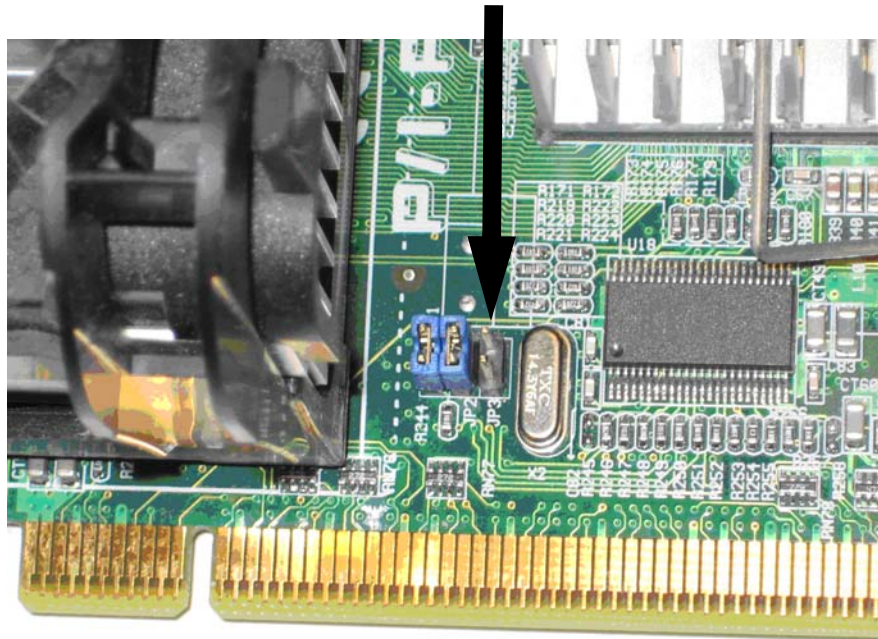


Figure 7-1 Jumper Location of SBC

4. Attach the monitor to the top video connector on the NVIDIA Video board. If both monitors are RGB, Attach the DVI to RGB connector to the middle connector, see Figure 7-2.

Installing the Second Video Card, *Continued*

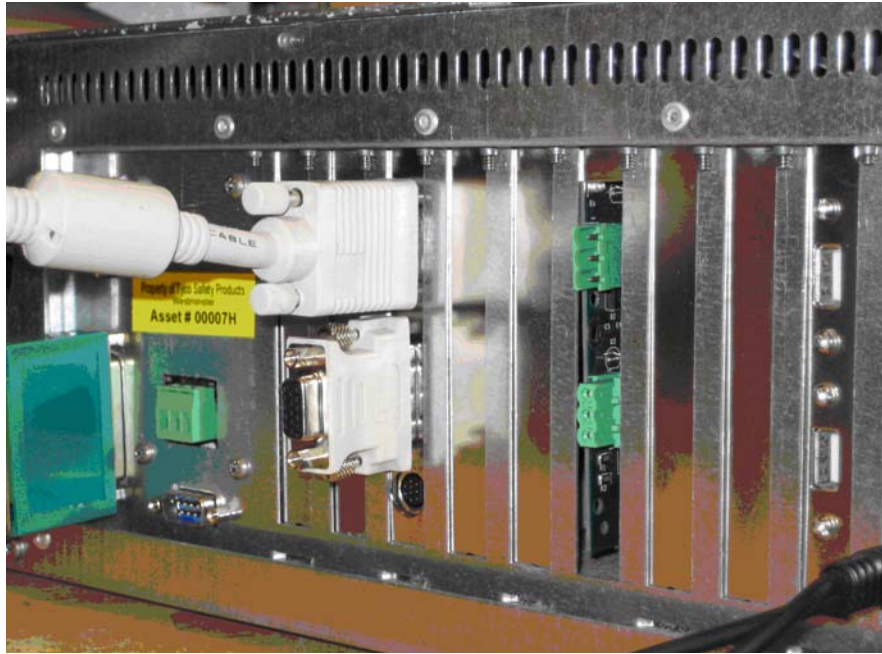


Figure 7-2 Monitor Connections

Note: This is not necessary if the 2nd monitor is DVI.

5. Start the PC and log in, then exit TrueSite Workstation if it is set up to start automatically. (If TrueSite Workstation does not start, a message is displayed to indicate that the TSW requires 1024 x 768 resolution minimum.)
6. Microsoft Windows XP may detect this new video card and places the appropriate display drivers from its system folder automatically. To maximize the video board acceleration and increase the performance, insert the “Video Master Installer” CD that came with the board into the CD drive.
7. CD Autorun feature brings up the “Welcome Screen”. Using your mouse, select “Display Driver”. (If Autorun fails, please review *Readme.txt* file on the CD).
8. At this point the installation copies all driver files. Once the installation completes, the system prompts you to “restart” the PC. Remove the CD and accept this.
9. When the system restarts, log in, then exit TrueSite Workstation if it is set up to start automatically. (If TrueSite Workstation does not start, a message is displayed to indicate that the TSW requires 1024 x 768 resolution minimum.)
10. Right-click on the desktop and select “properties”.
11. Click the “Settings” tab, set the resolution to 1024 by 768 pixels and color quality to highest (32 bit). Click apply and select **Yes** to accept.
12. Click the “Screen Saver” tab. Select “None”, click **Apply**.
13. Select “Power”. In settings for Home/Office Desk power scheme, turn off monitor select **Never**, then **Apply**, then **OK**.
14. Close this window, click **Start** and shutdown the PC. Power off when done.
15. Plug in the second monitor to the adapter plug on the NVIDIA Video card.

Continued on next page

Installing the Second Video Card, *Continued*

Installation Procedure, *Continued*

16. Start the PC and log in, then exit TrueSite Workstation if it was setup to start automatically.
17. If the NVIDIA Display setup wizard appears click cancel.
18. Right-click on the desktop and select “properties”.
19. Click the “Settings” tab, both monitors will be displayed. Select number 2. Set the resolution to 1024 by 768 pixels and color quality to highest (32 bit). Click apply and select **Yes** to accept.
20. Click the “Extend my Windows desktop onto this monitor” checkbox to enable. Click **Apply**, then **OK**. You can now move windows from one monitor to another.

For Clone mode

21. Double-click the second monitor Icon (2) to invoke the Monitor Properties dialog.
 22. Click on the “GeForce 6200” tab.
 23. Change the nView Display mode from “Dualview” to “Clone”.
 24. Click **OK** to accept changes. Then **OK** to close the window.
-

Disabling the Reboot Watchdog

Reboot Watchdog If a UL Card (565-283) is installed and you want to exit the TrueSite Workstation Run-time because you plan to run other applications, run the Watchdog32 application from *C:\Simplex\TrueSite\TSW\config\Watchdog32.exe* to disable the reboot on the UL card. Disabling the reboot watchdog prevents the PC from rebooting.

Chapter 8. Simplex 4190 TrueSite Workstation Checkout

Introduction

This chapter describes how to checkout the Simplex 4190 TrueSite Workstation system, to show you how the system will work when it is programmed and operating

In this Chapter

This chapter discusses the topics listed in the following table. Refer to the page number listed after the topic for information on that topic.

Topic	See Page #
How to Checkout the TrueSite Workstation	8-2
Testing Circuit Supervision	8-2

Simplex 4190 TrueSite Workstation Checkout

How to Checkout the TrueSite Workstation

You can use the simulation function provided to check out the system. The simulation function shows you how the system will work when it is finally programmed and operating.

Testing Circuit Supervision

Use the following procedures in the table below to confirm that the network is supervising for opens, shorts and grounds. The right column in this table shows what is displayed on the TrueSite Workstation monitor screen when an open, short, or ground occurs on a circuit.

Table 8-1: TrueSite Workstation Display Conditions

Condition	TrueSite Workstation Monitor Screen
Open -- Open a line on a supervised circuit to make circuit impedance infinite.	Trouble Statement
Short -- Apply a zero ohm jumper across the circuit.	Trouble Statement
Earth Ground -- Place a 10k or smaller value resistor from supervised wiring to Earth Ground.	If an Earth Ground occurs on any circuit, the Earth Fault Trouble Statement occurs.

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