Features

Compatible with Simplex ES Net and 4120 Networks

TrueSite Graphic Annunciator general features:

· **Simplex fire alarm network connected** graphical interface

· **Supports standard fire service annunciation icons** to provide firefighter and first responders with critical fire response information

· **Custom alarm and system messages** can intuitively guide emergency responders; important information including HAZMAT locations and contact information can be quickly presented

· **Color graphical annunciation** capacity for up to 250,000 ES Net network points or up to 100,000 4120 network points. See ES Net Version Compatibility and 4120 Version Compatibility for additional details.

· **Floatable and dockable windows** allows windows to either be fixed (docked) or floatable

· **Password Security** supports 8 to 16 alphanumeric passwords with configurable lockout for quantity of failed attempts

· **Quad monitor support** allows multiple active windows such as putting the Alarm List Window on one monitor and the Graphics Window on another, with up to 4 total supported monitors

· **Pan-and-zoom features** allow precise dynamic navigation within a graphic screen for rapid and convenient selection of the area of interest

· **Configurable coverage zones** allow user defined areas or zones within a graphics screen to be highlighted to indicate the area of activity without zooming into the point of interest

· **Auto-jump** allows the screen view to automatically jump to a graphic at a predetermined zoom level with the active device centered on the screen; alternately, the system can be selected to auto-jump to the Alarm List window

· **Captive or Non-Captive modes** support dedicated annunciator operation (captive) or annunciator operation with other Windows applications (including word processing and spreadsheet) where annunciator activity takes precedence (non-captive)

· **Extensive historical logging;** up to 500,000 events; information is compatible with spreadsheet and database programs for report customization

· **Multiple password** controlled operator levels with selectable feature access

· **Available optional connections** for printers or other compatible systems

· **Operating Systems;** Compatible with Windows 7 & 10 Professional or Enterprise

Agency Listings

· UL 864 as Fire Alarm Control Unit Annunciator (UOXX.S771)

· UL 1076 as Proprietary Burglar Alarm Unit (APOU.BP2801)

· UL 1610 as Central Station Burglar Alarm Control Unit (AMCX.S771)

· ULC/ORD-C1076, Proprietary Alarm System Annunciator (APOU7.S771)

· UL 1076, Proprietary Burglar Alarm Multiplex Receiving Unit (APOU.S771)

· ULC-S527 as Fire Alarm Control Unit Annunciator (UOXX7.S771)

Additional annunciator system features:

· **TrueSite Workstation Mobile Client** allows compatible iOS and Android devices to access system information

· **Export to XML** allows TrueSite Workstation data to be easily exported for report generation and customization

· **Node Name** supports including a description of the specific building or area associated with a point in the annunciator views and reports

· **Web Browser Command Link** enables the ability to easily call up an external web page or link (including web-cam) with a single command button on a graphic screen

· **RAID 1 Support** provides a real-time "mirror" image on a secondary hard drive. Operation will automatically transition to the alternate drive on a drive failure without loss of operation. RAID support is available to systems that do not use the Backup Utility.

Figure 1: TrueSite Graphic Annunciator (optional second monitor with expanded desktop shown)

· **Backup Utility** can be configured to automatically backup specified directories, including TSW job data, to the secondary hard drive. The Backup utility is available to systems that do not use RAID.

· **Sound files** (WAV) can be used to create custom audible status annunciation using local onboard speakers

· **Fahrenheit or Celsius** temperatures can be displayed for screens showing heat sensor temperatures

Graphic screens details:

· Over 30,000 custom field generated and edited graphic screen capacity is available

· Multiple import and export formats are supported (refer to Graphics Screens for details)

Additional Fire Alarm Network capabilities:

· Multiple annunciators can be nodes on the same fire alarm network to provide redundant operations for improved survivability

· Connect to up to seven (7) separate network loops

· Graphical diagnostic tools identify network node and loop status

· Provides event printing (with compatible printer), view or print of status and service reports, TrueAlert Self-Test reports, and print graphic screens (see Table 20 for printing details)

· Compatible with IMS (Information Management Systems) and GCC (Graphic Command Center) on the same fire alarm network

· 2120 Multiplex Serial Line Interface (SLI) allows connection to up to eight, 2120 Multiplex systems

Selectable computer and monitor options:

· Computers are available as desktop or rack mount with mouse operation and/or touchscreen operation providing convenient user interface

· Desktop LCD widescreen, high resolution LED backlit monitors are 24 in. class, 23.8 in. (605 mm) diagonal, provide 1920 x 1080 resolution, and are available with or without touchscreen

· Wall mount LCD widescreen, high resolution monitors are 42 in. (1067 mm) diagonal, provide 1920 x 1200 resolution, and are available with or without touchscreen

· Rack mount LCD high resolution monitors are 19 in. (483 mm) diagonal with touchscreen and provide 1280 x 1024 resolution

Description

Network Annunciation.

TrueSite Graphic Annunciators provide annunciation and status display for Simplex Fire Alarm Networks using a personal computer based graphical interface with a high resolution, color display.

Operation

Operation When fire alarm network status changes occur, the screen displays the type and location of the alarm (or other activity) and the appropriate header buttons appear. In the historical log screen below in Figure 7, Fire, Priority 2, Supervisory, and Trouble buttons are shown with an active Trouble indicated.

Sample Screens. Figure 6 is representative of historical log screen detail. Figure 7 is representative of a system graphic screen with icons representing the devices of interest. Screen choices can be configured per system preference. However, when using multiple optional monitors, multiple windows can be visible simultaneously for operator convenience.

Ease of Operation With touchscreen monitors, the operator touches the screen area in alarm (or uses the mouse control) to access a more detailed view of the alarmed zone or device. With the proper password access, the operator has the ability to acknowledge alarm and trouble conditions, activate signal silence, and perform system reset directly from the workstation screens.

Programmable Activity Timeout allows an unattended monitor to revert to the login screen when the configured time period expires.

Individual User Preferences appear when the user logs in. Options include: Font Size (default or large); Toolbar Size (small or large); Interface Theme (MS Office 2003 or System); Floating Window Options (select whether to show Menu bar or show Tool bar).

Historical Log and List Details. Figure 6 below shows historical log details. The display format is similar to the display for active list items such as the alarm list. Displayed information can be sorted on-screen by each category shown (number, time, date, point name, etc.). List information can be reviewed on the screen or printed at a local or remote system printer.

Customized Response. Custom alarm and trouble messages can be added and field edited to provide operator response assistance. Point specific information, such as hazardous material storage and lists of people to notify, can be automatically or selectively displayed.

Password Control

Multiple Access Levels Operator access level is determined during log-in. Select functional access to match the training and responsibility of the operator. Operators with additional TrueSite Graphic Annunciator and fire alarm network training may be qualified for access to more detail. For operators who are primarily concerned with immediate facility security, a lower level access will provide the information necessary for proper response but will not allow access to areas beyond their training.

Product Image Reference

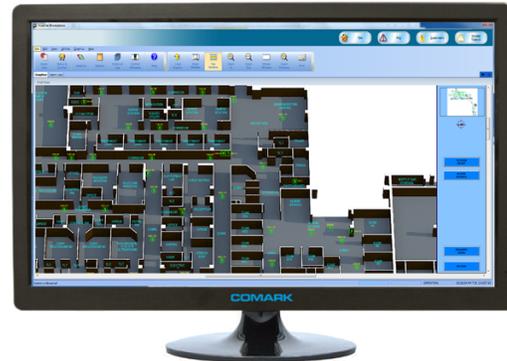**Note:** Graphics not to scale

Figure 2: 24 in. Desktop Monitor

Figure 3: 42 in. Monitor

Figure 4: Desktop PC

Figure 5: Rackmount

Graphics Screens

Site and Floor Plan Details. Graphics screens can provide easily recognizable site plan and floor plan information. The level of detail can be customized for the specific facility to easily and accurately direct the operator to the immediate area of interest.

Graphic Screen Controls. The graphic portion of the screen below is shown as a main screen but could be set to float and be moved to another monitor if desired. Icons can be added to identify the location and type of the device of interest and the graphics control toolbar (located at the top of the graphic) can be used to pan and zoom for more precise detail. Programmable coverage zones can be added with selectable area and zoom level. A fixed area site plan (key plan) with action buttons and screen locator can be added as shown below. Pan and zoom are tracked by a green rectangle in the key plan.

Custom Banner and Main Screen Background. The banner area shown in Figure 6 can be customized (bitmap area is 2250 x 68 pixels). The main screen background (viewable prior to login) can be customized with a bitmap of up to 1000 x 525 pixels.

Action Messages. In addition to screen text or graphic information, the operator can be presented with specific action messages that provide emergency response information and directions. These action messages are easily field edited for local requirements. The appropriate action message in the screen below would be found in the Acknowledge dialog box.

Auto-Jump to Graphics or Alarm List. Select whether activity should cause a jump to a list format or to the associated graphic screen.

Supported Graphics Formats:

- DWG Import Formats: AutoCAD R9, 10, 11-12, 13, 14, 2000-2002, 2004-2006, 2007-2009, 2010-2011
- DXF Import Formats: AutoCAD R14 and 2000
- Export Formats: AutoCAD 2000 DWG/DXF format (allows editing in AutoCAD 2000 or later)
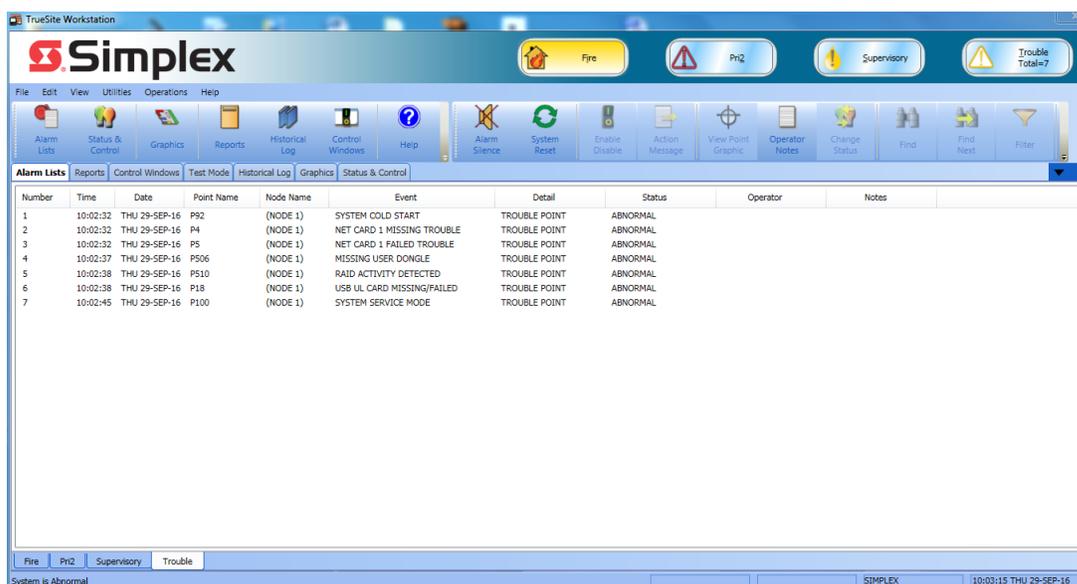- Import drawing files: DWG, WGS, IMS/GCC DOC files, WMF, BMP, GIF, and JPG

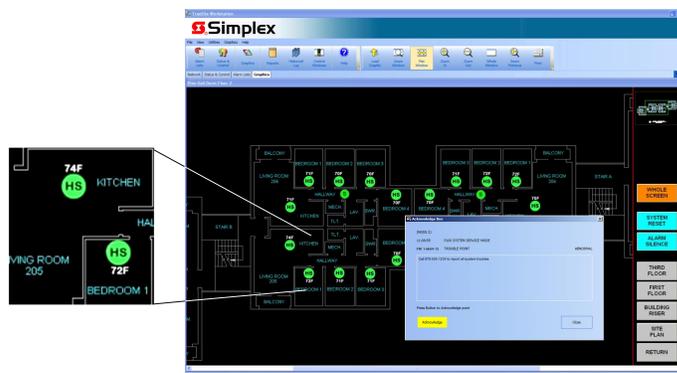**Figure 6: TrueSite Workstation Sample Alarm Lists Screen**

Figure 7: TrueSite Workstation Sample Graphic Screen with Detail Enlargement and Acknowledge Box

Note: This sample graphic screen demonstrates heat sensors (HS) dynamically displaying their local temperature readings.

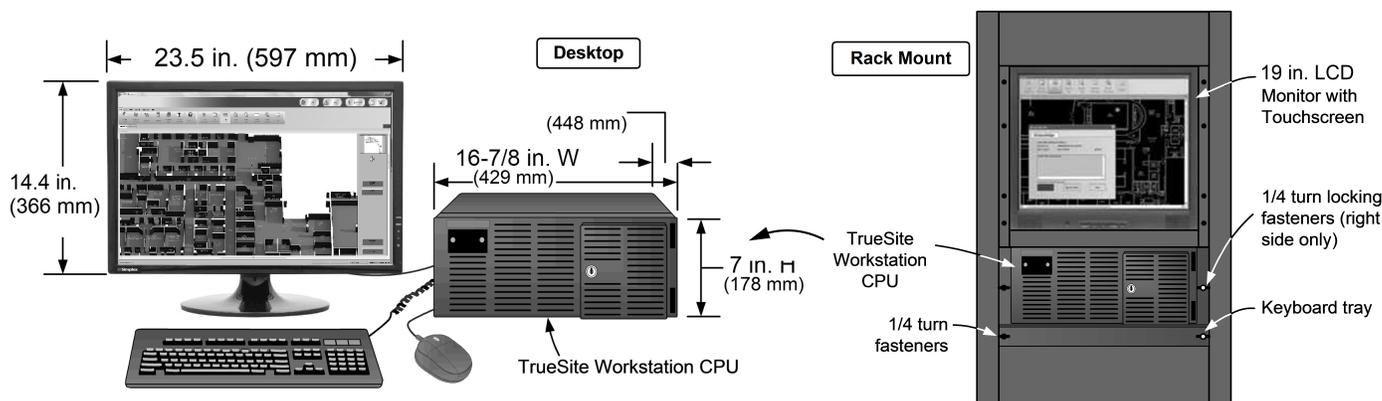## Hardware Reference with 24 in. Desktop Monitor and 19 in. Rack Mount Monitor

Figure 8: Hardware example

Network Diagnostics

Graphical Network Status Views. Automatic, built-in diagnostics are available to provide graphical views of Network topology and Network status. Missing communications links due to wiring breaks or shorts as well as inactive network nodes are indicated clearly to guide in returning the system to normal. Information screens are available to provide detail about each specific network node. Network level functions such as timekeeper node and monitor node are indicated as well as identification of the node being used for the diagnostic.

Multiple Network Connections

When extensive network expansion or interconnection of existing separate networks is required, up to seven network loops in any combination of ES Net and 4120 network loops may be connected to the TrueSite TrueSite Graphic Annunciator. Each network loop is connected to its own network interface module allowing the workstation to appear as a node in each individual loop.

With a multi-loop network connection, the TrueSite Graphic Annunciator is a node member of each network loop with up to 98 additional nodes per loop. This allows up to 686 total nodes and the TrueSite Graphic Annunciator (687 total) to be interconnected.

4120 Version Compatibility

4120 network product compatibility with TrueSite Graphic Annunciator requires the following software versions:

Table 1: Fire Alarm Network Interface

Network Interface	Compatibility
4190 GCC/IMS/NPU	Master Version 2.07 (or later)
4100U	Master Version 11.03 (or later)
4100	Master Version 9.02 (or later)
4020	Master Version 9.02 (or later)
4010	Master Version 3.01 (or later)
4002	Network Firmware Version 3.02.92 (or later)
2120 (SLI) Interface	
2120	Master Version 5.44 (or later) Network Interface Version 3.02 (or later)

Note:

1. TSW 100,000 4120 network point capacity requires TSW version 3.04, or higher, and ES panels at version 3.03.04, or higher.
2. TSW supports up to 100,000 points from ES series panels on 4120 networks or DACR points only.
3. Other legacy 4000 series panels are limited to a capacity of 62,500 points on the TSW. You can mix with ES series panels reporting above the 62,500 point range.
4. A TSW with a 2120 SLI interface is limited to 62,500 points for the entire system, including ES series panels and DACR points.

ES Net Version Compatibility

ES Net product compatibility with TrueSite Graphic Annunciator requires the following software versions:

Table 2: ES Net software requirements

Software	Required software version
Network Programmer	2.04 or above
ES Programmer	6.01 or above
TrueSite Workstation	6.01 or above
TrueSite Incident Commander	6.01 or above

Table 3: ES Net firmware requirements

Component	Required firmware version
4100ES panel	6.01 or above
4010ES panel	6.01 or above
4007ES panel	6.01 or above
ES Net NIC Application	1.04
ES Net NIC EOS	1.04

Note:

1. TSW 250,000 ES Net network point capacity requires TSW version 6.01, or higher, and ES panels at version 5.03, or higher.
2. TSW supports up to 250,000 points from ES series panels on ES networks or DACR points only. The maximum points supported from 4120 networks is 100,000 points.
3. Where TSW supports both ES Net and 4120 network loops, the maximum TSW point capacities are as follows:

   i. Up to 250,000 ES Net network points and DACR points combined.
   ii. Up to 100,000 4120 network points. See notes in for additional information.
   iii. The combination of ES Net, DACR, and 4120 points are not to exceed 250,000 TSW points total.

Multi-Loop Operation Features

Improved survivability:

· Individual network loops operate independently
· In the event of loss of one or more loops, remaining loops continue to operate

Loop Independence:

· New loops can be added without affecting existing loops

Assists with phased-in system expansion:

· Each loop can be installed as a stand-alone network allowing local node programming to evolve as required
· When construction or renovation reaches completion, loops can be combined for coordinated facility protection

Multi-loop requirements:

· Each loop requires a dedicated Network Interface Card
· Supports up to seven network loops in any combination of ES Net and 4120 network loops maximum

Product Selection

Table 4: Hardware Systems

Model	Description
4190-8406	**TrueSite Graphic Annunciator**; for status annunciation only, does not provide control capability; requires selection of computer, monitor, & software from list below
Note:	
1. Requires selection of computer type and applications software from below.	
2. LAN connections require Transient Suppressor, see below for details	

Table 5: Software Only and Aftermarket Additions

Model	Description
4190-8606	TrueSite Graphic Annunciator Software Only package, refer to Table 19 for computer specifications reference (listings and approvals are not applicable). **Note:** Windows **operating system is not provided**. For software only packages purchase operating system locally as required.
4190-8901	Aftermarket hardware addition
4190-8605	Aftermarket software addition

Table 6: Computer Type (select one as required)

Model	Description	
4190-7026 4190-7028	Desktop	Computer with Intel i7, 2.4 GHz CPU, 6MB Cache, 8GB RAM, (2) 1TB Hard Drives (minimum), USB ULIO card, DVD R/W, integral audio and amplified speakers, onboard video for up to two displays (1) SVGA and (1) DVI, (2) RS-232 Serial ports, (7) USB ports, (2) Gigabit LAN ports, Passive backplane with (8) PCI, (3) PCIe x 1 and (1) PCIe x 16 slot, USB keyboard and mouse; charcoal grey housing; Computers are pre-installed with Windows 10 Enterprise 64 bit (includes CD and license) and TrueSite Workstation software. 4190-7026 and 4190-7027 are configured with a file Backup utility and no RAID controller, 4190-7028 and 4190-7029 are configured with RAID 1 data mirroring and no file Backup utility. 4190-7027 and 4190-7029 include rackmount mounting hardware.
4190-7027 4190-7029	Rackmount	
4190-7030	Desktop	Order with 4190-8901 only. Same PC as 4190-7026 and 4190-7028 except without operating system or TSW software. Use for replacement of existing PCs when operating system and TSW software are available and will be installed on site. Compatible with 32 or 64 bit Windows 10 and Windows 7 operating systems.

Table 7: LCD Color Monitor

	Model	Size (Diagonal)	Description		
Monitor Only	4190-7131	21.5 in. (546 mm)	LCD Monitor for desktop applications		Select one minimum, four maximum, as required per computer choice; connect as SVGA or DVI, both cables are included; touchscreen models include separate serial controller cable; black/charcoal grey housings; for 3 or 4 monitors select 4190-6038 (32-bit OS) or 4190-6039 (64 bit OS) Dual Video Card as required (see below)
	4190-7132	23.8 in. (605 mm)	LCD Monitor for desktop applications		
	4190-7114	42 in. (1049 mm)	LCD Monitor for horizontal wall mount applications		
Monitor with Touchschreen	4190-7233	21.5 in. (546 mm)	Desktop	LCD Monitor with touchscreen and built-in serial controller	
	4190-7235	23.8 in. (605 mm)	Desktop		
	4190-7234	18.5 in. (470 mm)	Rack Mount		
	4190-7214	42 in. (1049 mm)	Wall Mount		

Table 8: Applications Software (select one per application)

Model	Description
4190-5055	TrueSite Graphic Annunciator Software; requires selection of 4190-8406 or 4190-8606
4190-5063	TrueSite Incident Commander Graphic Annunciator to TrueSite Incident Commander Workstation Upgrade, upgrades TrueSite Incident Commander Graphic Annunciator to full TrueSite Incident Commander control capability. It requires 4190-8605. **Note:** Refer to data sheets S4190-0020 and S4190-0016 for additional control capability information and other options available with this selection for more information.

Table 9: Software Feature Option

Model	
4190-5067	TrueSite Workstation Mobile Client Feature; quantity of (1) enables TrueSite Graphic Annunciator information to be accessed from compatible mobile devices; access for mobile clients is enabled by entering an authorized feature code at the server; see data sheet S4190-0024 for more information
4190-5068	ES Net Supplemental Traffic feature; enables support of supplemental traffic for TrueSite Workstation and allows for remote client connections to TSW from any nodes on the ES Net network. **Note:** Available only if Control Operations (4190-5063) is added. For further information regarding supplemental traffic, refer to data sheet *ES Net Network Applications, Communications, Options and Specifications (S4100-0076)*.

Table 10: Internal Hardware Options (select as required)

Model	Description
4190-6034	Quad RS-232 Serial Port Card, select when more than two serial ports are required; may be needed for 2120 SLI connections; **PCI Slot card** with pluggable terminal block output; up to 2 maximum; one 4190-6026 suppressor is require per connection (see below)
4190-6049	Dual Video Card for 64 Bit Operating System, PCIe x 16 Slot, 2 DVI outputs; select one for support of 3 or 4 monitors; Note: Dual monitor support is standard; onboard video is used for first two monitors, use optional 4190-6049 video card for monitors 3 and 4

Table 11: Transient Suppressed Connectors (select as required)

Specification	Rating
4190-6002	Transient Protected Connector, **select one per connection to a standard RS-232 serial port**
4190-6026	Transient Protected Connector for Quad Serial Port Card; one required per connection
4190-6010	Transient Suppressor for LAN/WAN connection; **required for agency listing for each TrueSite Graphic Annunciator LAN/WAN connection**

TrueSite Incident Commander Network Product Selection

4120 network options

Note: For additional information on 4120 Networks and 4120 network product specifications see data sheet S4100-0056.

Table 12: 4120 network options

Option	Configured	Aftermarket	Description		Size	Alarm/ Supv.
Network Interface Modules (7 maximum)	4190-6061	4190-9829	Modular network interface card (select media modules separately, listed below); PCI slot card; supports Class B or Class X operation		1 PCI slot	46 mA
Media Modules for Modular Network Interface (as required)	4190-6036	4190-9822	Wired Media	Mounts on 4190-6061 or 4190-9829 modular network interface card (up to 2 media cards per network interface card). Maximum of 1 left port and 1 right port duplex fiber media card per modular network interface card. Field connections require left port to right port pairing. Order fiber media service kits for retrofit jobs where ST connectors are already installed (refer to data sheet S4100-0056 for full fiber media module specifications and retrofit information)	N/A	55 mA
	4190-6301	4190-9851	Left port, single-mode 4120 duplex fiber media card		N/A	55 mA
	4190-6302	4190-9852	Right port, single-mode 4120 duplex fiber media card		N/A	55 mA
	4190-6303	4190-9853	Left port, multi-mode 4120 duplex fiber media card		N/A	55 mA
	4190-6304	4190-9854	Right port, multi-mode 4120 duplex fiber media card		N/A	55 mA

ES Net network options

Note: For additional information on ES Net networks and ES Net network product specifications see data sheet S4100-0076.

Table 13: ES Net external NIC for TSW product selection

Model	Enclosure	Description	Power	Size	Alarm/Supv.
4190-9832	Red	Connects a TSW or Incident Commander to an ES Net loop. ES panel network supports Class B or Class X operation, TSW connections are Class B. Includes (4) built in Ethernet ports, supports (1) additional media card. Ports A and C have earth fault detection.	120/240 VAC	Wall mount enclosure measures 10 in. x 10 in. x 2.5 in.	120 mA
4190-9833	Platinum		120/240 VAC		
4190-9834	Red		24 VDC		
4190-9835	Platinum		24 VDC		

Table 14: ES Net NIC cards for 4100ES or TrueSite Workstation

Model	Card Type	Description	Size	Alarm/Supv.
4100-6104	Slot - install to a single slot in a 4100ES bay	Mounts in 4100ES cabinet. Connects a 4100ES FACU, TrueSite Workstation, or Incident Commander to an ES Net Network. Supports Class B or Class X operation. Includes (4) built in Ethernet ports, install to a single slot in a 4100ES bay. Supports up to (2) additional media cards. Ports A and C can be configured for earth fault detection.	One slot of a 4100ES bay	120 mA
4100-6310	Flat - install to any (2) vertical block space in a 4100ES bay		2 vertical blocks	

Note:

1. Network interface cards include built-in Ethernet network communication ports, order optional media cards as required.
2. TrueSite Workstation connection is Class B, for Class X networks TSW connection must be 20 ft (6 M) maximum in conduit.
3. For TSW or Incident Commander UL 1610 Central Station Burglar Alarm Control Unit applications use the 4190 series External NIC.

Note: TrueSite workstation connection is Class B, for Class X networks TSW connection must be 20 ft (6 M) maximum in conduit. Network interface cards include built-in Ethernet network communication ports, order optional media cards as required.

Table 15: ES Net dual channel media modules for external NIC and 4100ES NICs

Model	Media card type	Description	Size	Alarm/Supv.
4190-9856	ES Net NIC dual channel Ethernet media card	Select per network-connection requirements; mounts on the supplied ES NIC(s); (1) media card per external NIC network interface card. Dual Channel Media Cards provide 2 ports for input and output connections. Field connections require proper port pairing, refer to *579-1258 ES Net Dual Channel Fiber, Ethernet, and DSL Media Card Installation Instructions* for additional information.	N/A	20 mA
4190-9858	ES Net NIC dual channel single-mode fiber media card		N/A	135 mA
4190-9859	ES Net NIC dual channel multi-mode fiber media card		N/A	135 mA
4190-9857	ES Net NIC dual channel DSL media card		N/A	155 mA

Table 16: Fire Alarm Ethernet Switch

Model	Type	Description
4190-6050	Eight wired Ethernet connections	Fire Alarm Ethernet Switch, 24 VDC, red cabinet; with Earth Detection on wired connections UL 864 and ULC S527. **Note:** Each server and client LAN connection requires a 4190-6010 Transient Suppressor, except for server to client connections when both are in the same room; see below for suppressor details; Ethernet Switch power shall be provided by a listed fire alarm power supply; see data sheet S4190-0018 for more information.
4190-6054	Four wired Ethernet connections and two single-mode fiber optic connections	
4190-6055	Four wired Ethernet connections and two multi-mode fiber optic connections	

TrueSite Graphic Annunciator Equipment Specifications

Table 17: Computers and Accessories (Please note that equipment and specifications may vary due to equipment design changes)

Model	Description	Dimensions	AC Power Input*
4190-7026 4190-7028 4190-7030	Desktop Computer	16 ⅞ in. W x 7 in. H x 17 ⅝ in. D (429 mm x 178 mm x 448 mm)	2 A @ 120 VAC, 60 Hz (240 W) Operating Range: 95-132 VAC; 180-264 VAC, auto-range; 50/60 Hz
4190-7027 4190-7029	Rack Mount Computer	19 in. W x 7 in. H x 17 ⅝ in. D (483 mm x 178 mm x 448 mm)	
NA	Rack Mount Keyboard Tray (included with computer)	19 in. W x 1 ¾ in. H x 12 ¾ in. D (483 mm x 44 mm x 324 mm)	NA

Table 18: LCD Monitors (Please note that equipment and specifications may vary due to equipment design changes)

Model	Description	Dimensions	AC Power Input*
4190-7131	21.5 in. desktop	20 3/16 in. W x 15 in. H x 6 ¾ in. D (513 mm x 381 mm x 171 mm)	0.4 A @ 120 VAC, 60 Hz (48 W) Operating Range: 100-240 VAC, 50/60 Hz
4190-7233	21.5 in. desktop with touchscreen	20 3/16 in. W x 15 in. H x 8 11/16 in. D (513 mm x 381 mm x 221 mm)	
4190-7132	24 in. desktop	23.5 in. W x 14.4 in. H x 1.6 in. D (597 mm x 366 mm x 42 mm)	DC 12V, comes with external AC-DC Adapter (90-264VAC 50/60Hz)
4190-7235	24 in. desktop with touchscreen	23.5 in. W x 14.4 in. H x 1.6 in. D (597 mm x 366 mm x 42 mm)	
4190-7234	18.5 in. Rack Mount with Touchscreen	17 ¾ in. W x 11 1/16 in. H x 2.022 in. D (451 mm x 281 mm x 51.4 mm)	1.5 A @ 120 VAC, 60 Hz Operating Range: 100-240 VAC, 50/60 Hz
4190-7114	42 in. Horizontal Wall Mount	41 5/16 in. W x 25 ¼ in. H x 5 in. D (1049 mm x 641 mm x 127 mm)	2.02 A @ 120 VAC, 60 Hz (243 W) Operating Range: 100-240 VAC, 50/60 Hz
4190-7214	42 in. Horizontal Wall Mount with Touchscreen		
* **Note: Products are Agency listed for 120 VAC**. Computers and monitors are shipped with 120 VAC cord; NEMA 5-15P plug to IEC-320 C-13 connector. For use with other voltages, locally obtain a cord in compliance with local safety standards.			

Table 19: Computer Minimum Specifications Reference**

Specification	Rating
Enclosure**	Passive backplane with: 7 PCI slots and 1 CPU slot; security features: key lock reset switch; fan monitor card; locked door protecting access to the CD/DVD R/W drives and one front mounted USB port
Computer**	Compatible with Microsoft Windows 10 32 and 64 bit operating systems (see page 1 for specific operating system compatibility); Intel i7 2.4 GHz CPU, or Core 2 Duo 2.1 GHz CPU, 4 GB RAM, 160 GB minimum hard drive; 2 Serial ports, 1 Parallel port, 4 USB ports, dual Gigabit LAN ports, USB keyboard and mouse; SVGA video output with 16 MB VRAM, CD/DVD Drive, PCI and ISA slots (as required), integral audio and amplified speakers, additional ports as required for custom features (e.g. USB, Serial, Parallel, etc.)
** PLEASE NOTE: Simplex 4190 Series computers are Agency listed for use with TrueSite Graphic Annunciator software. For applications where Agency listings are not required, TrueSite Graphic Annunciator software should be compatible with most computers meeting the stated minimum specifications. However, due to computer manufacturers potentially using unique and/or proprietary drivers, hardware, or other software not tested with TrueSite Graphic Annunciator software, there may be incompatibilities. If other computers are used, proper operation with TrueSite Graphic Annunciator software may require technical adjustments by a qualified computer technician and would be the sole responsibility of the computer supplier and computer manufacturer.	

Table 20: Computer Port Reference (4190-7026, 4190-7027, 4190-7028, 4190-7029 and 4190-7030)

Specification	Rating
RS-232 Serial Ports	Two standard, up to 9 total with optional 4190-6034 Quad Serial Port Card
USB Serial Ports	Seven total; five in the rear and two in the front behind the locked door
Ethernet Ports	Two Ethernet ports and one Parallel port
Event Printing*	For agency listed Proprietary Supervising Station operation and for other operations, if an event printer is desired, a supervised and dedicated Simplex Model 4190-9027 agency listed dot matrix printer is recommended; connection is to USB or Serial RS-232 Port of the Server PC (see data sheet *S4190-0027* for printer details)
Other Printing*	For report, screen, or graphics printing, a Windows compatible printer can be used. Connection can be USB, Serial RS-232, or LAN/WAN connection via Ethernet
Printable Information	Event printing (with supervised and dedicated dot matrix printer 4190-9027 as explained above)
	Auto-print of auto-jump graphics; prints to Windows default printer
	Reports: Historical logs, System Activity, TrueAlarm Status, TrueAlarm Service, TrueAlert Self-Test, Analog Monitor ZAM Calibration, and Active List; displayed reports can print to a LAN connected (unsupervised) printer
	Screen captures (configurable as negative images to reverse black backgrounds)

Table 21: Environmental Specifications

Specification	Rating
Operating Temperature	32 °F to 120 °F (0 °C to 49 °C)
Operating Humidity	up to 93% RH, non-condensing, at 90 °F (32 °C)
* Note: Parallel port printer connection is supported on 32-bit operating systems only.	

Anti-Virus Software

When the TrueSite Graphic Annunciator is connected to a TCP/IP network other than a dedicated Fire Alarm network, it is highly recommended that regularly updated anti-virus software protection be installed on each connected computer. The TrueSite Graphic Annunciator has been verified as compatible with Symantec EndPoint Protection 12.1.3 and McAfee Enterprise 8.8.

Additional Network Product Reference

Table 22: Additional Network Product Reference

Subject	Data Sheet
4100ES Basic Panels with SPS Power Supplies	S4100-0031
4120 Network Products and Specifications	S4100-0056
ES Net Network Products and Specifications	S4100-0076
4100ES Basic Panels with EPS Power Supplies	S4100-0100
Fire Alarm Ethernet Switches for TrueSite Workstation	S4190-0018
TrueSite Incident Commander Graphic Annunciator	S4190-0023
Mobile Client for TrueSite Graphic Annunciator	S4190-0025

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