



FireWorks®

Incident Management Platform



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Overview

FireWorks is an incident management command and control platform that comprises hardware, software, and networking components that together provide a powerful and cohesive Mass Notification and Life Safety solution. Sophisticated networking technology allows it to integrate seamlessly with EDWARDS life safety solutions, yet FireWorks remains fully interoperable with third-party equipment, making it ideal for system upgrades or new installations alike.

FireWorks can automatically trigger programmed responses to facility events, or it can act as an operator interface for manual control. The FireWorks user interface provides a clear, concise, and coordinated view of any situation by presenting information strategically.

Five configurable graphical viewports offer simultaneous insight into different aspects of an incident, while the underlying software dynamically manages content in each viewport based on real-time events and user interaction. Facility maps, live video feeds, audio channels, protocol information, and fingertip control over vital equipment all come together instantly within view of an operator facing events that require solid information and split second timing.

Supporting every FireWorks workstation is a sophisticated network backbone – strong enough to handle coordinated critical control functions from as many as fifty client workstations and many other devices, yet flexible enough to manage integration with third-party mass notification systems.

Redundant server options eliminate risk of communications breakdowns by providing alternate data paths that regenerate communications in the event of signal loss. FireWorks can operate on an existing local area network, or provide facility access from anywhere in the world via secured Virtual Private Network (VPN) connections.

Standard Features

- **Widely listed to prevailing Mass Notification and Life Safety standards**
Readily adopted for standalone or remote applications
- **Dynamic event-driven user interface**
Easy-to-follow notification and control protocols
- **Software-only standalone versions**
Cost-effective annunciation where agency listings are not required
- **Agency listed servers, workstations, monitors, accessories**
Sophisticated command and control for multiple networks
- **Highly Sensitive Smoke Detector (HSSD) support**
Full command and control integration with *VESDAnet* detectors
- **FW-FAST Automatic System Configuration**
Generate interactive floorplans from engineering drawings and EDWARDS SDU files.
- **Email event notification to multiple recipients**
Instant communication with off-site personnel
- **Powerful HTTP/HTTPS communication engine**
Compatible with DRMNS and many other third-party systems
- **Password-defined user access and event filtering**
Control who sees what
- **Use native graphic formats to create event maps**
Import most standard graphic formats – no conversion required
- **Multi-lingual operation**
Supports English, Spanish, Portuguese, and French
- **Remote real-time WebClient**
Access system information from anywhere in the world

Application

Scalable Third-party Integration

FireWorks is equipped with a powerful HTML/HTTP/HTTPS/XML Command Processor that supports integration for Distributed Recipient Mass Notification Systems (DRMNS) and many other third-party systems. It can also receive information from third-party

systems by way of the FW-DARCOM (with Bosch D6600) option and/or with the MN-NETRLY4 input/output modules.

FireWorks systems can send certain UL 2572 V1, Technical Category TC1, TC2, TC3 and TC4 outputs to third-party systems by way of the MN-FVPN VoIP, MN-NETRLY4 and/or Signature Series modules. The Edwards APS6A can be easily configured to support most third-party interfaces.

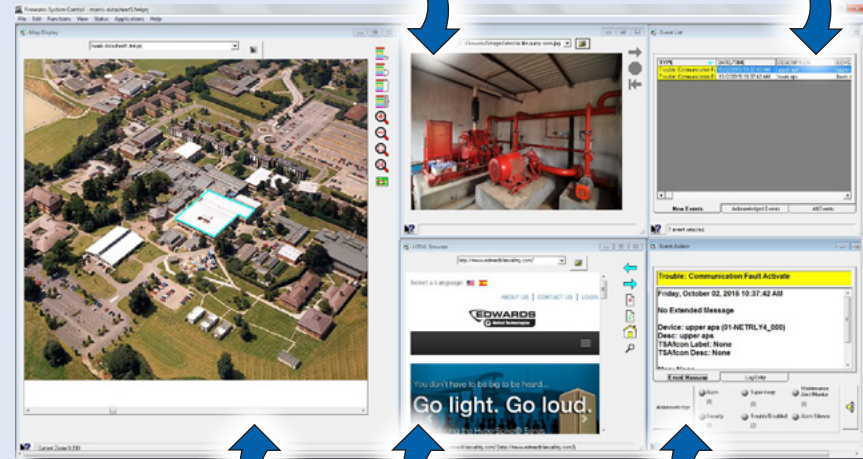
Dynamic Viewports

Image Viewport:

Displays images relevant to the occurrence. Any event, any device, or any combination of devices and events can retrieve instant graphical information that is relevant to the occurrence and can be understood at a glance.

Event List Viewport:

Upon receipt of a change of state, the event information is displayed in the Event List Viewport. If several events are received, all events are displayed in the Event List viewport and are color-coded by priority.



Each operator can customize the system to have anywhere from two to five viewports visible.

Map Viewport:

This gives the user an overview of the event's location in the context of its surroundings and the entire facility.

Browser Viewport:

When the FireWorks workstation is provided with an Internet/network connection, the Browser Viewport can be configured to automatically connect to emergency information sites, network accessible building automation, video streams, and other third-party systems.

Event Action Viewport:

This screen is used to provide instructions on how to respond to the selected event, and also to acknowledge that these instructions have been carried out.

Flexible Email Messaging

To enhance off-premise notification, FireWorks supports connection to a Simple Mail Transfer Protocol (SMTP) mail server, allowing event information to be emailed. This provides the ability to get event information automatically, efficiently and inexpensively to the people who need to know about events in facilities.

Email messages can be configured based on individual events, event categories and more. Certain people can receive all system events, others can receive only alarm conditions, while still others can receive only specific events – the options are easy to configure and also to change.

Valuable Reporting Functions

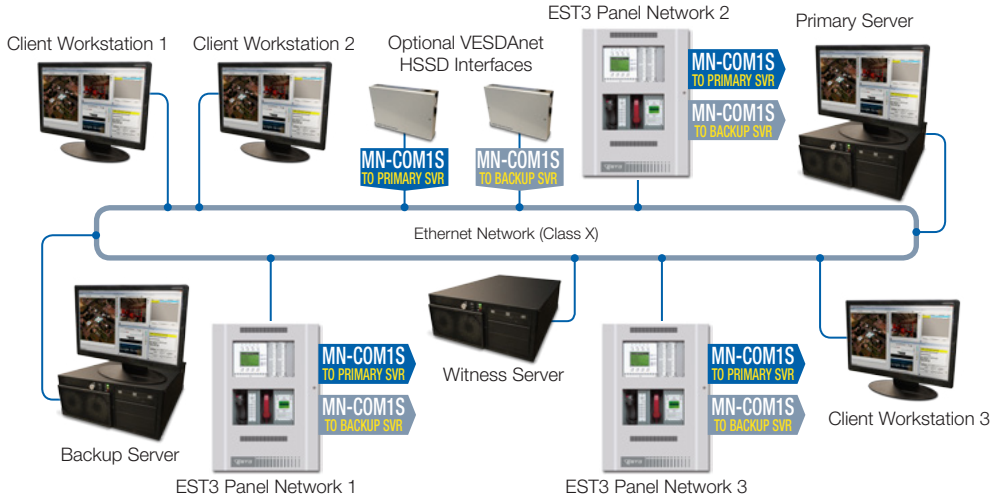
FireWorks report functionality allows the system administrator or other authorized user to create and retrieve panel reports. Reports include *Panel Status*, *Disabled Points* and *Sensitivity*. Meanwhile, a full history report generator allows the review of historical panel events.

FireWorks has a versatile *Devices Test Report*. This report allows for devices that have been tested as part of a Service Group to be included in a National Fire Protection Association (NFPA) Fire Alarm And Signaling Code (NFPA 72) formatted report.

Powerful Network Capabilities

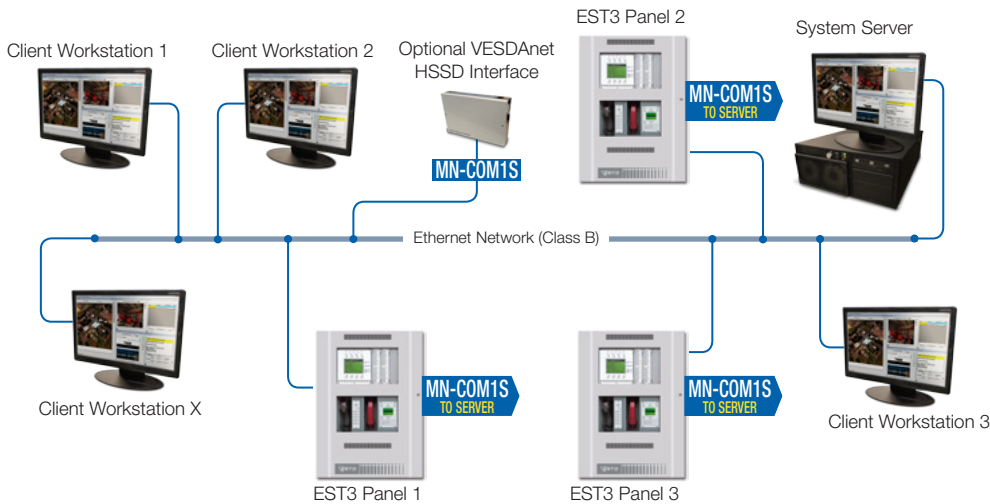
- Up to 15 Graphical Command/Control WorkStations with Non-Redundant Server option
- Up to 50 Graphical Command/Control WorkStations with Redundant Server option
- Up to 15 concurrent Text-Only Web-Client clients
- Up to 125 EST3(X) panel network nodes, with each system node having up to 64 networked panels for a total of 8,000 EST3(X) control panels. Each EST3 control panel can support up to 2,500 individual addressable points, this yields an addressable point count for FireWorks of 20,000,000 unique points just from EST3/3X systems.
- Up to 750 MN-FVPN Voice over Internet Protocol (VoIP) or MN-NETRLY4 Input/Output modules
- Up to 1,000 iO and/or VS panel connections via IPMON with up to 1000 points per system for up to 1,000,000 points from iO/VS systems.
- DACR accounts with FW-DARCOM and Bosch D660 are limited by Bosch software options.
- Up to 20 VESDAnet networks with each network having up to 61 detectors in life safety mode (1,220 detectors) or 100 detectors in process monitoring mode (2,000 detectors)

Redundant Network: up to 50 Client Workstations



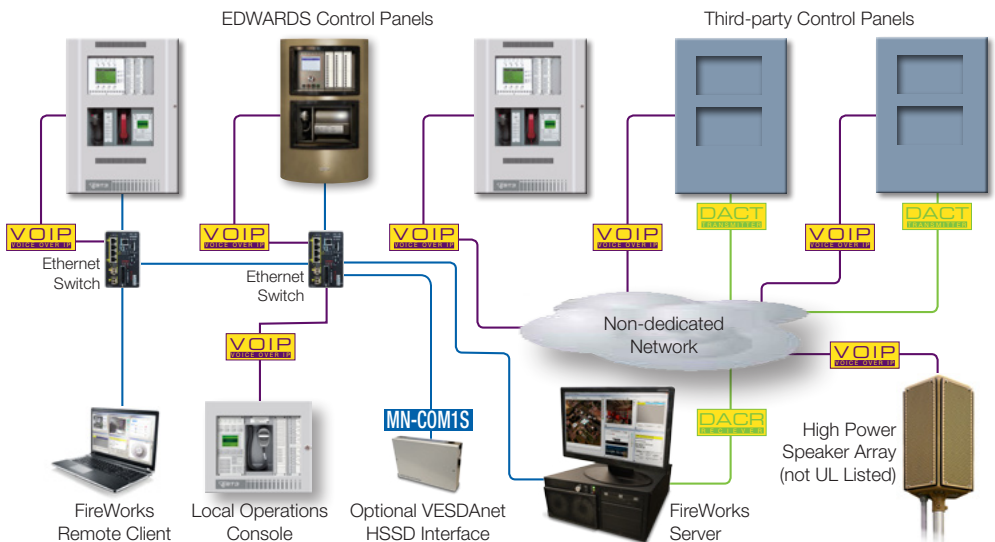
- Utilizes Microsoft configuration requirements
- System will support up to 50 client workstations
- System will have Primary, Backup, and Witness servers with automatic transfer from Primary to Backup
- Servers require a quorum to operate
- Each EST3(X) Panel network requires one MN-COM1S to connect to the Primary Server and one MN-COM1S to connect to the Backup Server
- All connections are supervised and will post faults across the network
- The network must have a dedicated VLAN with priority signaling
- Network switches must have UPS power

Non-redundant Network: up to 15 Client Workstations



- Utilizes Microsoft configuration requirements
- System will support up to 15 client workstations
- Each EST3 network requires one MN-COM1S to connect to the system server
- All connections are supervised and will post faults across the network
- The network must have a dedicated VLAN with priority signaling
- Network switches must have UPS power

Example UL Listed Mass Notification: Scalable Third-party Integration



- Large network capacity for global and enterprise-wide connectivity
- Compatible with third-party networks
- UL/ULC Listed for Mass Notification and Security applications
- Easy-to-navigate event-driven viewport display
- Software-only versions do not require UL listed hardware
- Internet/WAN connectivity
- Monitor and control for single or multi-line networks
- HTTP/HTTPS communications engine
- Automatic email notification to multiple recipients
- Context-sensitive event action instructions
- Create event maps with standard graphic formats
- Digital Alarm Receiver connectivity

Network Options

FW-FAST: Automatic System Configuration

FireWorks Assimilation Systems Technology can significantly reduce the time and expense of programming or modifying a FireWorks system database. This unique and powerful option reads properly formatted AutoCAD® and EDWARDS System Definition Utility (SDU) files to automatically create floorplans with device locations, and panel renderings with pseudo point touch-sensitive areas. Floorplans and panel renderings can then easily be inserted into the FireWorks system.

FW-HSSD: Aspirated Detection Interface

FireWorks Highly Sensitive Smoke Detector (HSSD) interface provides UL Listed/FM Approved digital command/control integration with Xtralis VESDA® Series smoke detectors for very early fire detection. FireWorks can respond to individual sector/pipe conditions, detector events, as well as minor and major faults across 20 VESDA nodes encompassing as many as 2,000 VESDA detectors. It can also reset and perform certain other control functions of the VESDAnet detectors.



FW-DARCOM: Third-party Interoperability

This option allows for a FireWorks system to support Digital Alarm Communicator Receiver (DACR) operation. The DACR can be any Bosch® D6600 DACR that can receive Security Industry Association (SIA) Contact ID or 4/2, or the cost-effective IPMON1000 option. The FW-DARCOM option with the D6600 allows FireWorks to receive, display and process information from most third-party fire alarm and/or security panels.

IPMON1000: Life Safety Integration

When used in conjunction with FW-DARCOM software, this option supports digital connection to up to a total of 1,000 EDWARDS iO or Kidde VS Series control panels for receive-only Contact ID operation. Each individual zone or addressable device can display on the FireWorks system.

WebClients: Global VPN Communications

FireWorks systems support an optional real-time WebClient remote read-only text viewing feature that can be accessed from anywhere in the world via a secured Virtual Private Network (VPN) connection, or local network connection. WebClient events mirror the FireWorks system *Event List* and *Event Action* viewports. These events are prioritized and color-coded for easy identification by type and source. Events may also be filtered at the Web Client, and sound files can be added per alarm, supervisory, trouble or monitor event category.

Any number of remote web clients can be deployed by FireWorks. The number of concurrent connections possible is determined by the package option. The WebClient can also run many reports for the remote workstation and print them to a local printer or output them to a .csv file.

Hardware Options

Workstations

The FireWorks FW-UL6W Workstation is a ULI 864/ULC S527 Listed and FM Approved hardened industrial workstation that can be used for any Workstation or Witness Server application. The FW-UL6W cannot be used as a Redundant or Non-Redundant System Server. The FW-UL6W has the following specifications:



- i7 4770S processor
- 3.9 GHz
- 8 MB Cache
- QPI speed of 5 GT/S
- 4 core, multi-threaded to 8
- 32 GB RAM
- Standard RAID 1 (dual) 500 GB Solid State Drives
- 2 Network Interface Ports

Servers

The FireWorks FW-UL6S Server is a ULI 864/ULC S527 Listed and FM Approved hardened industrial workstation that can be used for any FireWorks – Server, Workstation or Witness Server. The FW-UL6S has the following specifications:



- Dual Xeon capable
- Standard single processor Xeon 2680
- 3.6 GHz
- QPI speed of 8 GT/S
- 10 core, multi-threaded to 20
- 25 MB Cache
- 128 GB RAM per processor
- Standard RAID 1 (dual) 500 GB Solid State Drives
- Standard Hot-swappable dual power supplies
- Standard 3 HDMI video ports
- 4 Network Interface Ports

Monitors

The FireWorks solution family offers 2 UL/ULC Listed/FM Approved monitor options, 22" and 42" touchscreens. Each FireWorks Workstation can support multiple monitors.



The FW-22LCDWTS is a touch screen unit with:

- Up to 1680 x 1050 WSXGA video
- Built-in speakers
- DVI/VGA input
- Desktop mounting

The FW-42LCDWTS is a touch screen unit with:

- Up to 1920 x 1080 video
- Built-in speakers
- DVI/VGA input
- Single or dual horizontal or vertical wall-mounting options

Network Accessories



MN-FNS8C2F3 Managed Ethernet Switch
Data Sheet 85010-0153

FireWorks can operate on dedicated (recommended) or non-dedicated Ethernet networks.

EDWARDS offers one of the most robust and powerful ULI/ULC Listed/FM Approved Managed Ethernet Networking solutions available. MN-FNS Series Managed Ethernet Solutions are powered by Cisco® technologies. Layer 2 and Layer 3 switches/routers are available, along with interface modules that support single or multimode fiber optic media. Class B, Class X, Mesh and Hybrid topologies are fully supported.

ULI/ULC Listed/FM Approved MN-FVPN Voice over Internet Protocol (VoIP), MN-NETRLY4 input/output and MN-COM1S Communication Modules are all supported by the FireWorks platforms.



MN-FVPN
Data Sheet
85010-0143



MN-NETRLY4
Data Sheet
85010-0149



MN-COM1S
Data Sheet
85010-0144

FireWorks, along with the EST3(X), can control the crystal-clear and powerful HyperSpike High and Medium Power Speaker Arrays.



See Data Sheet 85001-0637 for more information.

Always consult the latest Agency Standards, Consensus Standards/Codes and with the Local Authority Having Jurisdiction for system application and installation requirements.

See Ordering Information List for FireWorks Hardware Accessory information and descriptions.

Agency Listing

The FW-UL6W has been investigated against, and found to be in compliance with, the following standards:

- CAN/ULC-S303-M91 Standard for Local Burglar Alarm Units and Systems, 1st edition
- CAN/ULC-S527-99 Standard for Control Units for Fire Alarm Systems, 2nd edition
- CAN/ULC-S559-04 Standard for Equipment for Fire Signal Receiving Centres and Systems, 1st edition
- CSA C22.1-12 Canadian Electrical Code, Part 1
- UL 365 Standard for Police Station Connected Burglar Alarm Units and Systems, 4th edition
- UL 609 Standard for Local Burglar Alarm Units and Systems, 11th edition
- UL 636 Standard for Holdup Alarm Units and Systems, 10th edition
- UL 864 Standard for Control Units and Accessories for Fire Alarm Systems, 9th edition
- UL 1076 Standard for Proprietary Burglar Alarm Units and Systems, 5th edition
- UL 1610 Standard for Central-Station Burglar-Alarm Units, 3rd edition
- UL 1635 Standard for Digital Alarm Communicator System Units, 3rd edition
- UL 2017 Standard for General-Purpose Signaling Devices and Systems, 2nd edition
- UL 2572 Standard for Mass Notification Systems, 1st edition
- NFPA 11 Standard for Low-Expansion Foam Systems, 2010 edition
- NFPA 11A Standard for Medium- and High-Expansion Foam Systems, 2010 edition
- NFPA 12 Standard on Carbon Dioxide Extinguishing Systems, 2011 edition
- NFPA 12A Standard on Halon 1301 Fire Extinguishing Systems, 2009 edition
- NFPA 12B Standard on Halogenated Fire Extinguishing Agent Systems Halon 1211
- NFPA 13 Standard for the Installation of Sprinkler Systems, 2013 edition
- NFPA 15 Standard for Water Spray Fixed Systems for Fire Protection, 2012 edition
- NFPA 16 Standard for the Installation of Foam-Water Sprinkler and Foam-Water Spray Systems, 2011 edition
- NFPA 17 Standard for Dry Chemical Extinguishing Systems, 2013 edition
- NFPA 17A Standard for Wet Chemical Extinguishing Systems, 2013 edition
- NFPA 70 National Electrical Code
- NFPA 72 National Fire Alarm Signaling Code
- NFPA 2001 Standard on Clean Agent Fire Extinguishing Systems, 2012 edition
- FM 3010 Approval Standard for Fire Alarm Signaling Systems, 2010 edition
- UL 2572 security and data protection
- For UL 2572 first edition applications only:
- Approved Security Function for FIPS PUB 140-2: No encryption employed
- Communication Security: Level 1
- Stored Data Security: Level 0
- Access Control Security: Level 2
- Physical Security: Level 1
- Audit Control: Not provided

Ordering Information

System Software

FW-CGS	Standalone FireWorks Color Graphics Software PIN letter. Allows full 5 view port display. Includes FW-FIREKEYUSB. No common control.
FW-CGSUL	Standalone FireWorks Color Graphics Software PIN letter. Allows full 5 view port display. Includes FW-FIREKEYUSB. With common control.
FW-NCZZFP	Non-Redundant Server Client license. One FIREKEYUSB and one Hasp PIN Code
FW-NS15FP	15 seat non-redundant server. One FIREKEYUSB and one Hasp PIN code for server only. Order Workstation Client licenses separately.
FW-NSZ5FP	5 seat non-redundant server. One FIREKEYUSB and one Hasp PIN codes for server only. Order Workstation Client licenses separately.
FW-RCZZFP	Redundant Server Client license. One FIREKEYUSB and one Hasp PIN Code.
FW-RS15FP	15 seat redundant server for new installations. Three FIREKEYUSB, three Hasp PIN codes and two Microsoft SQL licenses for servers only. Order Workstation Client licenses separately.
FW-RS25FP	25 seat redundant server for new installations. Three FIREKEYUSB, three Hasp PIN codes and two Microsoft SQL licenses for servers only. Order Workstation Client licenses separately.
FW-RS50FP	50 seat redundant server for new installations kit. Three FIREKEYUSB, three Hasp PIN codes and two Microsoft SQL licenses for servers only. Order Workstation Client licenses separately.
FW-RSZ5FP	5 seat redundant server for new installations. Three FIREKEYUSB, three Hasp PIN codes, two Microsoft SQL licenses for servers only. Order Workstation Client licenses separately.

Upgrade Software

FW-NCZZWP	Upgrade existing FW-CGSUL license to Non-Redundant Server Client license. One Hasp PIN Code.
FW-NCZZWP	Upgrade existing FW-CGSUL license to Non-Redundant Server Client license. One Hasp PIN Code.
FW-NCZZXP	Upgrade existing FW-CGS license to Non-Redundant Server Client license. One Hasp PIN Code.
FW-RCZZUP	Upgrade existing Non-Redundant Server Client to Redundant Server Client upgrade. One Hasp PIN code.
FW-RCZZWP	Upgrade existing FW-CGSUL license to Redundant Server Client license. One Hasp PIN Code.
FW-RS15UP	Upgrade existing 15 Seat non-redundant server to 15 seat redundant server cluster. Two FIREKEYUSB, three Hasp PIN codes and two Microsoft SQL licenses for servers only. Order Workstation Client licenses separately.
FW-RSZ5UP	Upgrade existing 5 Seat non-redundant server to 5 seat redundant server cluster. Two FIREKEYUSB, three Hasp PIN codes and two Microsoft SQL licenses for servers only. Order Workstation Client licenses separately.

FireWorks Software - Options

85012-0019	FireWorks Software DVD only.
FW-1S	One Seat WebClient.
FW-4S	Four Seat WebClient (Requires FW-1S).
FW-10S	Ten Seat WebClient (Requires FW-1S & FW-4S).
FW-DARCOM	Pin Code for Communication to DACRs and/or IPMON1000.
FW-FAST	Pin Code for FireWorks Assimilation System Technology (FAST) AutoCAD® reader and panel building option for FireWorks Server or Stand-alone system. Reads AutoCAD ® files and correlates with SDU to create or update FireWorks database.
FW-HSSD5	Pin Code for Single VESDA HLI Interface software PIN code. Enables connection of one (1) to five (5) VESDA HLI to FireWorks as nodes. Requires one FW-HSSX1 High Level Interface for each VESDA network if using Non-Redundant Server and two if using Redundant FireWorks Servers. Each server must have it's own separate FW-HSSX1.
FW-HSSD20	Pin Code for Single VESDA HLI Interface software PIN code. Enables connection of one (1) to twenty (20) VESDA HLI to FireWorks as nodes. Requires one FW-HSSX1 High Level Interface for each VESDA network if using Non-Redundant Server and two if using Redundant FireWorks Servers. Each server must have it's own separate FW-HSSX1.
FW-IPMON1000	Pin Code for IP Monitoring for 1000 connections to iO and/or VS Series panels. Requires companion software option FW-DARCOM.

Servers, Workstations

FW-UL6S	FireWorks Server or Workstation. Single Xeon processor, 128 GB Server RAM. Windows 7 Professional OS (64 bit). 3 HDMI Video outputs. With RAID1 500GB array (dual drives) and dual power supplies.
FW-UL6W	FireWorks Workstation. Single i7 Intel processor. 32 GB RAM. Windows 7 Professional OS (64 Bit). RAID1 configuration with dual 500 GB SSD. Single power supply.

Servers, Workstations Options

FW-HSSX1	FireWorks to VESDA High Level Interface Module with enclosure. Requires FW-HSSD5 or FW-HSSD20 software. UL/ULC for command/control. Maximum 61 VESDA detectors for Life Safety applications or up to 100 VESDA detectors for process control (non-Life Safety) per FW-HSSX1. 24 VDC.
FW-SP4I	Isolated Serial Port card for FW-UL6W Workstations. Provides four serial ports. Cannot be used on FW-UL6S Servers.
FW-ULVID3	FireWorks FW-UL6W Workstation or FW-UL6S Server video card with 3 HDMI ports. Maximum 2 per workstation or server.
PT-1S	System Printer - Desk Top Style.

Servers, Workstations Installation Accessories

BP1	Blank Panel for 19 inch Enclosure, 1 panel space - 1.75 inch x 19 inch.
BP2	Blank Panel for 19 inch Enclosure, 2 panel spaces - 3.5 inch x 19 inch.
BP3	Blank Panel for 19 inch Enclosure, 3 panel spaces - 5.25 inch x 19 inch.
BP6	Blank Panel for 19 inch Rack /w 2.5 FP spaces, 6 panel spaces - 10.5 inch x 19 inch.
FW-RACKKB	Keyboard Rack mount kit - Black - 2 EIA panel spaces required.
FW-RACKPCUL5	Workstation Rack mount kit for FW-UL6 - 4 EIA panel spaces required comes with slides and rack handles.
FW-UL6CC1	FireWorks FW-UL6W Workstation or FW-UL6S Server computer cable cover kit. Required for UL 1076 (Security) Listed installations.
MFC-A	Fire Control Accessory, Multi-Function Enclosure, 8" X 14" X 3.5", Red.
RKU-61-24B	19 inch Black Rack Mount Cabinet, 24" deep for FW-UL6S or FW-UL6W .
VP-1	Ventilation Panel 1-3/4".
VP-3	Ventilation Panel 3-1/2".

Monitors, Monitor Accessories

FW-22LCDWTS	22" 16:9 LCD 115 Vac 1680x1050 resolution capacitive touch screen with integral speakers. Comes with desk stand cable set and driver disk.
FW-42LCDHMK1	42" wall mount bracket kit - single display, horizontal.
FW-42LCDVMK1	42" wall mount bracket kit - single display vertical.
FW-42LCDVMK2	42" wall mount bracket kit - dual display, vertical.
FW-42LCDWTS	42" 16:9 LCD 115 Vac 1920x1080 resolution surface acoustic wave SAW touch screen. Comes cable set and driver disk. Requires mounting bracket kit.

Network Modules, Accessories

MN-ABPM	Audio Bridge, panel mount - Mounts on MN-BRKT1 or MN-BRKT3.
MN-COM1S	UL 864 Listed FireWorks Communications Ethernet Port, Command & Control. Comes with power and RS232 data cables.
MN-FVPN	Voice Over Internet Protocol (VoIP) encoder/decoder, includes power and audio cable.
MN-NETRLY4	Ethernet controllable multi I/O module. 4 unsupervised inputs & 4 unsupervised outputs. Comes with one MN-NRKB1.
MN-NRBK1	Replacement mounting bracket with end caps for single MN-NETRLY4.
MN-NRMP	Mounting plate to allow up to 2 MN-NETRLY4 modules to be mounted on a MN-BRKT1 bracket.
MN-PASM2	Preamp audio supervision module. Provides Form C dry contact for audio or module failure.
MN-TK10	10 Position, 4 pole terminal kit for use with MN-NETRLY4 or MN-FVPN.

Upgrade Kits and Replacement Parts

FW-HD5RAIDW7	Replacement hard drive (blank) for FWUL5RAIDW7 computer. Does not include OS or other software. ULI/ULC Listed.
FW-UL5RAIDUKW7	Upgrade Kit to migrate FWUL5RAID PC to Windows 7 Ultimate 64-bit. Includes Windows 7 Ultimate 64-bit license, 2 pre-loaded 500 GB hard drives, 2 2GB (total 4 GB) memory module and instructions. Must remove existing 1G memory modules from FWUL5RAID. ULI/ULC Listed.
FWUL5RAM2G	Additional/replacement 2GB RAM module and instructions for use in FWUL5, FWUL5RAID, FWUL5W7 or FWUL5RAIDW7 computers only. Cannot be used with 1GB modules. Maximum 4 2GB RAM (8 GB total) on motherboard. ULI/ULC Listed.
FWHD5W7	Replacement hard drive (blank) for FWUL5W7 computer. Does not include OS or other software. ULI/ULC Listed.
FWUL5UKW7	Upgrade Kit to migrate FWUL5 PC to Windows 7 Ultimate 64-bit. Includes Windows 7 Ultimate 64-bit license, 1 pre-loaded Hard 500 GB drives, 2 2GB (total 4 GB) memory module and instructions. Must remove existing 1G memory modules from FWUL5. ULI/ULC Listed.
PCCA5	AC cable conduit Adapter for UL5
FW-NCCA5	Network conduit adapter. Use with FW-NIC provides connection for Ethernet cable conduit.
PCWD3	PC watch-dog card for UL5 computers.
FW-NIC	UL/ULC Listed Ethernet 100Base-TX Network Interface Card.



Contact us...

Email: edwards.fire@fs.utc.com

Web: www.est-fire.com

EST is an **EDWARDS** brand.

1016 Corporate Park Drive
Mebane, NC 27302

In Canada, contact Chubb Edwards...

Email: inquiries@chubbedwards.com

Web: www.chubbedwards.com

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