



## SWIFT®

### Wireless System Gateway

SWIFT® Wireless System can be applied in many situations that are problematic for traditional wired devices. In cases where areas of a building are difficult or impossible to wire, visually sensitive, or have restricted access, SWIFT wireless sensors provide an efficient, reliable solution.

SWIFT wireless devices communicate via a proprietary wireless mesh protocol to communicate with a TRIGA Series fire alarm system by means of a SWIFT Wireless Gateway (TRW-GI). The SWIFT Gateway connects to the SLC loop of the TR-2100R/B or TR-2100ECSR/B panels using TRIGA protocol.

Wireless devices in a SWIFT network develop "parent-child" communication links with other devices in the mesh, so that a message originating from a remote device "hops" to the closest parent device, and then to successive parent devices until the message reaches gateway. Alternate paths are also identified and supervised by the SWIFT protocol providing approved Class A wireless communication. If a device does not have an established communication path with adequate signal strength, an additional device such as a wireless module may be installed in between so that it will act as a repeater.

The TRW-GI supports up to 50 devices: 1 SWIFT Gateway and up to 49 wireless detectors and monitor modules. The Gateway assumes one SLC address (module), each wireless device assumes one module or detector address, and the display driver assumes one SLC address. The maximum number of gateways on a system is limited by the number of available SLC addresses on the FACP, or a maximum of 4 gateways within common wireless range.



**TRW-GI Wireless System Gateway**

The SWIFT system can be installed using only hand tools. However, the SWIFT Tools PC utility provides many benefits to a site evaluation (Site Survey), installing a system (Mesh Configuration), and extracting detailed information from the system (Diagnostics).

The utility runs on a laptop with Windows®, and uses a USB radio antenna (W-USB) to communicate with wireless devices within range of the PC. Once the devices have formed a mesh, SWIFT Tools can provide current information on all devices in the mesh as long as the PC is within range of the SWIFT Gateway.

## FEATURES & BENEFITS

- Wireless mesh technology (902-928 MHz frequency)
- Cascading-wave mesh operation provides a verification on redundant communication paths
- Any wireless device can be added to act as a repeater
- Each gateway supports up to 50 addresses: 1 wireless gateway and up to 49 devices
- Up to 4 wireless networks can be installed with overlapping radio network coverage
- Site Survey feature allows for an evaluation of a site before the installation
- Standard "code wheel" for setting the SLC address
- Wireless devices use (4) CR-123A lithium batteries
- Battery Life – UL listed for 2 years
- SWIFT Tools also creates a useful graphic representation of the wireless network. It provides important system data and a visual perspective.
- SWIFT Tools makes the survey and installation faster and easier to complete; diagnostics simpler to understand and view

## SWIFT TOOLS HAS THE FOLLOWING UTILITIES:

- Site Survey
- Create Mesh Network
- Diagnostics

SWIFT Tools works in a wireless environment with the TRW-GI and devices within a range of approximately 20 feet. SWIFT Tools is designed for systems running Microsoft Windows.

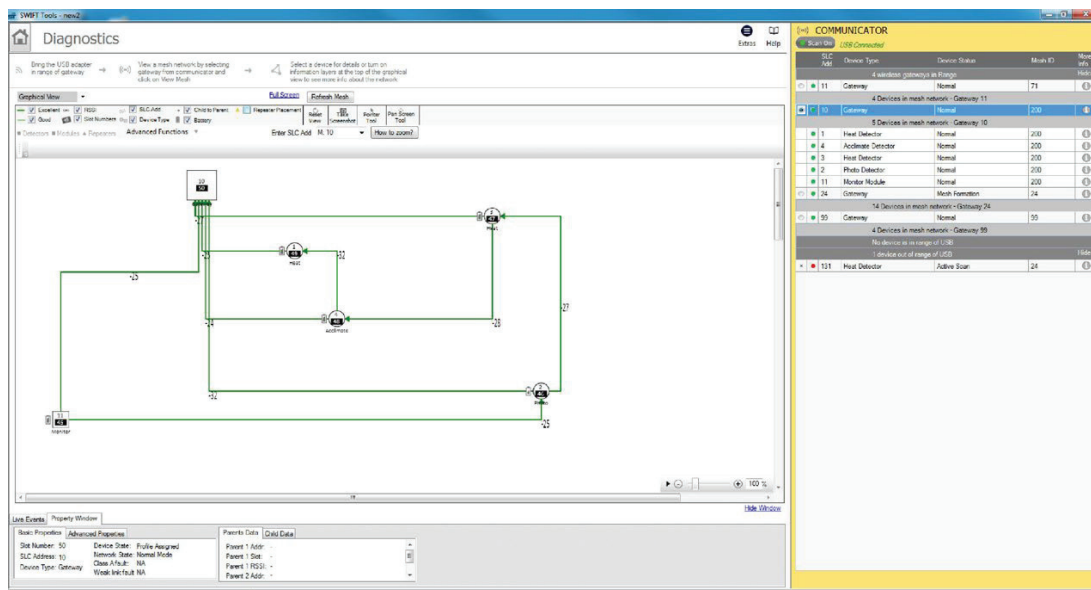
## MINIMUM SYSTEM REQUIREMENTS

**Operating System:** Windows XP Professional (SP3), Vista, Windows 7, and Windows 8 (32 bit and 64 bit).

**Hard Drive:** 20 GB hard drive space with minimum 1GB free space on hard disk.

**RAM:** Minimum 512MB RAM.

**Processor speed:** 1GHz minimum (2.4 GHz recommended) Processor, 512K Cache.



EXAMPLE OF SWIFT TOOLS' DIAGNOSTIC UTILITY

## SWIFT TOOLS

SWIFT Tools is a Windows PC-based utility that is used for site evaluation, system configuration, and diagnostics. The SWIFT Tools program is used with the W-USB adapter to communicate with wireless devices that are not joined in a network, or with one or more wireless gateways and all devices that have formed a network with each gateway. A graphic representation of the wireless network provides important system data in an effective format, including communication links, signal strength, battery voltage, and more. Tool-less operation is supported, allowing you to perform site evaluation and system configuration and installation can be accomplished without using SWIFT Tools when necessary. Multi-colored LEDs on SWIFT devices provide feedback for interactions. At any point, only one instance of SWIFT Tools can run on a laptop or PC.

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## ORDERING

**TRW-GI:** Wireless SWIFT Gateway - 1 SWIFT Gateway is required for each wireless mesh, and supports up to 49 SWIFT detectors or modules. Connects to the SLC loop of a compatible panel using IDP protocol. Power may be supplied by the SLC circuit or via an optional 24VDC input.

**NOTE:** Use of the 24VDC input may be more convenient for service as it allows for powering down a gateway without shutting down an SLC loop.

**TRW-MONITOR:** Wireless monitor module for use with the TRW-GI wireless gateway. Includes a special cover with a tamper magnet built in. Recommended for installation in a TR-SMB500-WH box (ordered separately) rather than a metal backbox for best performance. Ships with 4 Panasonic CR123A or 4 Duracell DL123A batteries.

**TRW-RELAY:** Wireless relay module for use with the TRW-GI wireless gateway. Includes a special cover with a tamper magnet built in. Recommended for installation in an TR-SMB500-WH box (ordered separately) rather than a metal backbox for best performance. Ships with 4 Panasonic CR123A or 4 Duracell DL123A batteries.

## INFORMATION

## Technical Specifications

### ORDERING INFORMATION (CON'T)

**TRW-PHOTO:** Wireless photoelectric smoke detector for use with the TRW-GI wireless gateway, B501W included

**TRW-ACCLIMATE:** Wireless multi criteria photoelectric smoke detector with thermal (135°F) for use with the TRW-GI wireless gateway, B501W included

**TRW-HEAT:** Wireless fixed-temperature (135°F) heat detector for use with the TRW-GI wireless gateway, B501W included

**TRW-HEAT-ROR:** Wireless rate-of-rise (135°F) heat detector for use with the TRW-GI wireless gateway, B501W included

**TR-SMB500-WH:** Optional surface-mount backbox.

**W-USB:** Wireless USB radio/antenna dongle that plugs into the USB port of a PC running SWIFT Tools. The W-USB provides a communication link with SWIFT Wireless devices that are within approximately 20 feet and have not formed a mesh. Alternately, when the devices have formed a mesh, bringing the PC/W-USB within range (20 ft.) of the gateway for that mesh will allow SWIFT Tools to acquire information on all devices in that mesh, including point-to-point signal strength for all links.

### AGENCY LISTINGS AND APPROVALS

The listings and approvals below apply to the TRW-GI. In some cases, certain modules may not be listed by certain approval agencies listing may be in process. Consult factory for latest listing status.

**UL Listed:** S36447

### STANDARDS AND CODES

The SWIFT Wireless System complies with the following UL Standards and with NFPA 72 Fire Alarm system requirements.

UL 864

UL 268

This document is not intended to be used for installation purposes. We try to keep our product information up-to date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

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