

# W-SYNC SWIFT Sync Module

## General

The **SWIFT® synchronization module (W-SYNC)** provides audio and visual synchronization between SWIFT notification appliances and System Sensor wired notification appliances supporting the integrated wired-wireless solution. The module only operates with notification appliances that use the System Sensor synchronization protocol. Synchronization of the SWIFT notification appliances within a single mesh network is inherent in the wireless system so a wireless synchronization module is not needed. The W-SYNC also provides wireless control and monitoring of a Notification Appliance Circuit (NAC) expander or power supply. The wireless synchronization module operates from 24V power with supplemental battery support and communicates through the mesh network with the gateway and FACP.

## SWIFT SYSTEM OVERVIEW

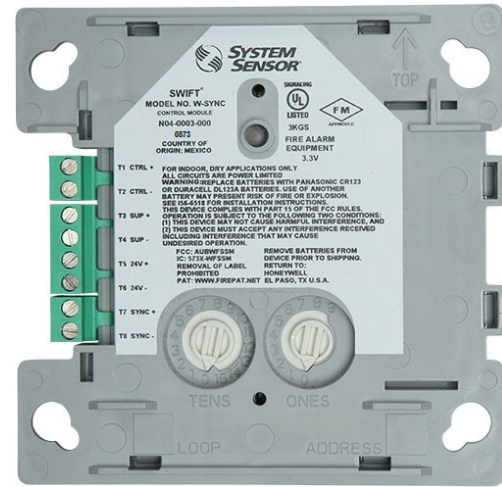
The SWIFT Smart Wireless Integrated Fire Technology wireless system offers intelligent (addressable) devices which provide secure, reliable communication to the Fire Alarm Control Panel (FACP) across a Class A mesh network. Wireless devices create an opportunity for applications where it is costly (concrete walls/ceilings, buried wires), obtrusive (surface mount conduit), or possibly dangerous (asbestos) to use traditional wired devices. It allows fast installation for time-critical situations and provides the flexibility to add wireless onto wired systems for retrofit installations. Both wired and wireless devices can be present on the same FACP for an integrated solution.

The mesh network within the SWIFT system creates a child-parent relationship between the devices so that each device has two parents providing a second path for communications on every device. If one device can no longer operate for any reason, the rest of the devices can still communicate with each other, directly or through one or more intermediate devices. Once an initial mesh network is formed, mesh restructuring automatically occurs to find the strongest paths possible within the network.

The SWIFT system also engages frequency hopping to prevent system interference whether intentional or accidental. Each device complies with FCC Title 47 Part 15c: 1) The device may not cause harmful interference and 2) The device must accept any interference received including interference that may cause undesired operation.

## Features

- Class A mesh network
- Addressable code wheels
- Commercial applications
- UL 864 listed
- Frequency hopping
- Bi-Directional Communications



W-SYNC SWIFT® Synchronization Module

## Specifications

### PHYSICAL/OPERATING SPECIFICATIONS

- **Dimensions:** Height 4.25 in. (10.8 cm); Width 4.25 in. (10.8 cm); Depth 1.5 in. (3.8 cm)
- **Weight:** 8.5 oz. (241 grams) includes 4 batteries

### ELECTRICAL SPECIFICATIONS

- **Maximum Transmit RF Power:** 17 dBm
- **Radio Frequency Range:** 902-928 MHz
- **Temperature Range:** 32°F to 120°F (0°C to 49°C)
- **Humidity:** 10% to 93% Non-condensing
- **Battery Type (Supplemental):** 4 Panasonic CR123A or 4 Duracell DL123A
- **Battery Life:** 2 year minimum
- **Battery-only Current Draw:** 268 µA (with 3.9k ELR)
- **Battery Replacement:** Upon TROUBLE BATTERY LOW display and/or during annual maintenance

### PART NO./DESCRIPTION

- **W-BATCART:** Wireless battery cartridge 10-pack
- **SMB500-WH:** White surface mount back box
- **WAV-CRL:** Wireless AV base, ceiling, red
- **WAV-CWL:** Wireless AV base, ceiling, white
- **W-SYNC:** Wireless sync module

## Standards

The W-SYNC SWIFT Sync Module is designed to comply with the following standards:

- UL 864 9th Edition and 10th Edition
- NFPA 72

## Agency Listings and Approvals

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult the factory for the latest listing status.

- **UL Listed:** S3705, Vol.2
- **FM Approved:** 3062564
- **CSFM:** 7300-1653:0160



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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