NAPCO StarLink MAX2 Fire Communicator Resource Guide

Welcome to the NAPCO StarLink MAX2 series of commercial fire alarm communicators, designed to be the most advanced, reliable, cost effective and easiest to install in the industry. The wide selection of StarLink models will ensure you have the correct communicator for every commercial fire application. All models meet UL864 10th edition, are NFPA 72 compliant and operate on an end-to-end Underwriters Laboratories listed backend, from the communicator to the NOC to the UL listed CS receiver. This document will guide you through the entire process, from the selection of the correct communicator model for the application, service plan selection, device activation, wiring, NOC configuration and AHJ testing of the completed installation.

To access the following information, simply click on the respective link:

- Notice to the Authority Having Jurisdiction
- Selection of the Communicator Model & Selection of the Service Plan
- StarLink Service Plan Price List
- StarLink Communication Product List
- StarLinkOmni-X® Extended Range Omnidirectional Cellular Antenna Kits
- NAPCO StarLink Communicator Compliance Summary
- StarLink Fire MAX2 ComNet Service Plan Overview
- ComNet Communicator Activation, step-by-step
- Tech Tip: Programming an SLE-MAX2 StarLink Communicator for SIA to CID Conversion
- Quick Start: NOC Configuration and Communicator Wiring for Dial Capture DACT Installations
- Quick Start: Triggering Radio Inputs from FACP Relays for Dual Path Fire Communicators
- AHJ Submittal Data Sheet: StarLink SLE-MAX2-FIRE Communicator
- AHJ Submittal Data Sheet: StarLink SLE-MAX2-CFB & SLE-MAX2-CFBPS Communicators
- AHJ Testing of Communicator: Take the guesswork out of testing the fire alarm communicator, locate the NFPA revision and installed communicator model for the required step-by-step AHJ test procedure:
  - *SLE-MAX2 Series Dual Path Fire Communicators Using Super Dual™ SIM Supervision AHJ Insp. Guide*
  - *SLE-MAX2-CFBPS Dual Path Fire Communicator, IP with Cell Backup AHJ Insp. Guide*
  - *SLE-MAX2-FIRE & SLE-MAX2-CFB Dual Path Fire Communicators, IP with Cell Backup AHJ Insp. Guide*
  - *SLE-MAX2-FIRE & SLE-MAX2-CFB Sole Path Fire Communicators AHJ Insp. Guide*
  - *SLE-MAX2-CFBPS Sole Path Fire Communicator AHJ Insp. Guide*
- StarLink Extended Antenna Information
- FDNY Certificate of Approval
- CSFM Listing 7300-0992:0503
- UL Notice of Authorization to Apply the UL Mark - Super Dual™, Supervised Dual Cellular, Dual Path Reporting Listing
- UL Certificates of Compliance, SLE-MAX2-Series: UL 985, UL 1023, UL 2610, UL 864

For additional resources, including FAQs, CAD drawings, How-to Videos and Tech Tips, visit the NAPCO Technical Library at http://tech.napcosecurity.com.

For NAPCO Technical Support, call 1-800-645-9440, Monday-Friday, 8:30 AM to 8:00 PM EST

Important Notice to the Authority Having Jurisdiction

StarLink MAX2 fire communicators support **the industry's first and only Supervised Dual Path, Dual Cellular Carrier** commercial fire communication service.

The new **Super Dual™** UL 864 10th edition listed service provides two fully supervised cellular reporting paths (AT&T and Verizon), as an alternative to traditional cell/IP dual path reporting. This new *dual path*, *dual cellular* feature eliminates the fire system designer's ordeal of getting permission from the subscriber's IT department to run a CAT5 cable and plugging the IP communicator into their network when dual path reporting is required. Super Dual also addresses AHJ concerns related to incompliance with NFPA 72 2022 Section 26.6.3.13 for the required 24 hours Secondary Power, which most often cannot be properly verified for IP reporting through the subscriber's network. Unlike traditional Dual Path IP reporting, MAX2 Super Dual does not rely on any subscriber supplied network appliances and associated backup power to support life safety reporting. The AHJ must only inspect and observe the testing of the MAX2 communicator to confirm that the entire dual path communication path is properly listed, installed, backed up and properly functioning. The AHJ can have confidence that any changes made in the IT room after the inspection will not affect fire communication reporting.

Super Dual service allows both cellular carriers to be fully supervised, as per NFPA 2013-2022, with each carrier supervised within not more than 6 hours:

> **NFPA 72 2016 Edition**
>
> **26.6.3.4** Multiple Communications Paths. If multiple transmission paths are used, the following requirements shall be met:
>
> (1) Each path shall be **supervised within not more than 6 hours**.
>
> (2) The failure of any path of a multipath system shall be **annunciated at the supervising station within not more than 6 hours**.
>
> (3) Multiple communications paths shall be arranged so that a **single point of failure shall not cause more than a single path to fail.**
>
> (4) The failure to complete a signal transmission **shall be annunciated at the protected premises** in accordance with Section 10.14.

By design, the StarLink Fire MAX2 **Super Dual** service plan will transmit a supervisory signal through each carrier, alternating AT&T and Verizon, every 3 hours. Upon failure of a cellular carrier channel, within 200 seconds the system will switch to the other carrier, will send the trouble condition to the central station, and locally annunciate the trouble.

Please note that in addition to Super Dual communications, the MAX2 series also supports the following service plan types, making it the ideal choice for any commercial fire communication application:

- Traditional **sole path cellular only** (AT&T / Verizon) communications
- Traditional **dual path cellular** (AT&T / Verizon) **and IP** communications
- New **Super Dual** supervised cellular (AT&T **and** Verizon) dual path communications

Getting Started...

Which model communicator should I use?

Does your FACP have available standby current of 85mA @ 24V DC ? (must be regulated power supply)

Yes Select model **SLE-MAX2-FIRE** Series (plastic enclosure) or **SLE-MAX2-CFB** Series (metal enclosure). These models are powered directly from the 24V DC AUX power provided by the FACP. This must be regulated power; do not connect to any power outputs designated as "unregulated power". For your standby power calcs, use 200mA (standby) and 325mA alarm (communicating). Standby backup power for the communicator is provided by the standby batteries of the FACP during AC power failures.

No Select model **SLE-MAX2-CFBPS** Series (metal enclosure). These models must be directly connected to a 120V AC dedicated circuit or optionally use a TRF12 plug-in transformer. Also included are provisions for a rechargeable standby battery.

What service plan should I select?

This is typically up to your local AHJ (Authority Having Jurisdiction) who is usually the Fire Marshal of the municipality. The AHJ will require compliance with a specific version of NFPA72 that will determine the service plan you select. If unsure of which plan to select, contact your AHJ for guidance.

NFPA 2013
2016
2019
2022 Compliance with NFPA 2013 through 2022 requires service plan SLF-SVC-13-MX which requires the Fire Communicator to "check-in" to the NOC every 60 minutes to ensure communicator readiness. This plan is the most common and most municipalities have standardized on 2013. NFPA 2013 service plans are currently selected for 80% of fire communicator activations nationwide.

NFPA 2010 Compliance with NFPA 2010 requires service plan SLF-SVC-10-MX which requires the Fire Communicator to "check-in" to the NOC every 5 minutes.

StarLink MAX2 Communicator Service Plan Price List

Sole Path Fire Service Plans		Price (mo)
Commercial Fire & Intrusion Sole Path Service Plans		
SLF-SVC-13-MX	NFPA 2013-2022 • Sole Path • Dual Sim • 1 Hour Cellular NOC Supervisory Check-in	**$9.95**
SLF-SVC-10-MX	NFPA 2010 • Sole Path • Dual SIM • 5 Minute Cellular NOC Supervisory Check-in	**$16.95**
Dual Path Fire Service Plans		
SLF-SVC-13-MXI	NFPA 2013-2022 • Dual Path • Dual Sim • 6 Hour NOC Cellular Supervisory Check-in • 6 Hour IP Supervisory Check-in	**$9.95**
SLF-SVC-13-MXD	NFPA 2013-2022 • Dual Path • Dual Sim • **SUPER DUAL™** • Supervised Dual Path, Dual Carrier • 6 Hr NOC Cellular Check-in	**$9.95**
SLF-SVC-10-MXI	NFPA 2010 • Dual Path • Dual Sim • 24 Hr NOC Cellular Supervisory Check-in • 24 Hr NOC IP Supervisory Check-in	**$6.95**
SLF-SVC-10-MXD	NFPA 2010 • Dual Path • Dual Sim • **SUPER DUAL™** • Supervised Dual Path, Dual Carrier • 24 Hr NOC Cellular Supervisory Check-in	**$6.95**
SLF-SVC-10-MSI	NFPA 2010 • Dual Path • Dual Sim • 5 Min NOC Cellular Supervisory Check-in • 5 Min NOC IP Supervisory Check-in (NYFD Plan)	**$16.95**
SLF-SVC-BU-MX	NFPA 2010 • Dual Path • Dual Sim • 24 Hour NOC Cellular Supervisory Check-in • 24 Hour IP Supervisory Check-in	**$6.95**

StarLink Communication Product List

MODEL | **DESCRIPTION**

SLE-MAX2-FIRE

Commercial Sole Path & Dual Path IP / Cellular Alarm Communicator
- **Dual Carrier - Verizon and AT&T**
- Red Plastic Enclosure
- Agency Compliance:
  ETL, conforms to UL 985, UL864 10th Ed, UL1023, UL2610
  Underwriters Laboratories UL 985, UL864 10th Ed, UL1023, UL2610
- Powered by Control Panel
  Input: 10-27.5 Reg. VDC(85mA standby w/peak RF transmission draw of 325mA).
- Self-Supervision allows the communicator to annunciate a comm trouble with no panel rewiring or reprogramming.

Also includes:
- **(4) EOLR Zone inputs for connection to legacy FACPs.**
- **(2) Programmable Form C relay, allowing NFPA output supervision.**
- **(2) Modular RJ45 Telco jacks for easy connection to FACP.**

SLE-MAX2-CFBPS

Commercial Sole Path & Dual Path IP / Cellular Fire Alarm Communicator
- **Dual Carrier - Verizon and AT&T**
- Red Metal Enclosure
- Agency Compliance:
  ETL, conforms to UL 985, UL864 10th Ed, UL1023, UL2610
  Underwriters Laboratories UL 985, UL864 10th Ed, UL1023, UL2610
- Direct 120VAC Powered, or from optional TRF12 Plug-In Transformer
- Includes power supply/provisions for backup battery/charger
- Self-Supervision allows communicator to annunciate a comm trouble with no panel rewiring or reprogramming.
- Also includes:
  - **(4) EOLR Zone inputs for connection to legacy FACPs**
  - **(2) Programmable Form C relay, allowing NFPA output supervision.**
  - **(2) Modular RJ45 Telco jacks for easy connection to FACP**

MODEL	DESCRIPTION
SLE-MAX2-CFB 	**Commercial Sole Path & Dual Path IP / Cellular Alarm Communicator** • **Dual Carrier - Verizon and AT&T** • Red Metal Enclosure • Agency Compliance: ETL, conforms to UL 985, UL864 10th Ed, UL1023, UL2610 Underwriters Laboratories UL 985, UL864 10th Ed, UL1023, UL2610 • Powered by Control Panel Input: 10-27.5 Reg. VDC(85mA standby w/peak RF transmission draw of 325mA). • Self-Supervision allows the communicator to annunciate a comm trouble with no panel rewiring or reprogramming. Also includes: • **(4) EOLR Zone inputs for connection to legacy FACPs.** • **(2) Programmable Form C relay, allowing NFPA output supervision.** • **(2) Modular RJ45 Telco jacks for easy connection to FACP.**
TRF12 	Optional 16.5VAC, 20VA plug-in power adaptor provides alternate power method for CFBPS series fire communicator models. Allows easy replacement of existing fire communicator installations already pre-wired for plug-in power adaptor operation.
FL-32FACP-LTEVS 	**FireLink StarLink Powered Self Contained Fire Communicator / FACP** • Includes 32 point max FACP with integral sole path LTE Verizon fire communicator • Supports 7 conventional zones, expandable to 32 zones max through analog addressable and conventional GEMC devices. • Fire annunciator mounted on front cover, supports up to 6 additional remote annunciators. • Includes 2 NAC circuits, 2A each @ 24V, supports Wheelock and Systems Sensor synchronization protocol. • System completely assembled/wired • Requires direct 120V AC power connection • Includes basic conventional default program suitable for sprinkler supervision and basic fire applications • Programmable through the FireLink Cloud mobile application • Agency Compliance: UL 864 9th Ed., NFPA 72 Editions 2016, 2013, 2010, 2007, CSFM, NYCFD
FL-32FACP-LTEVI **FL-32FACP-LTEAI** 	**FireLink Dual Path StarLink powered self contained fire communicator / FACP.** • Includes 32 point max FACP with integral dual path LTE Verizon fire communicator • Supports 7 conventional zones, expandable to 32 zones max through analog addressable, wireless and convectional GEMC devices. • Fire annunciator mounted on front cover, supports up to 6 additional remote annunciators. • Includes 2 NAC circuits, 2A each @ 24V, supports Wheelock and Systems Sensor synchronization protocol. • System completely assembled/wired • Requires direct 120V AC power connection • Includes basic conventional default program suitable for sprinkler supervision and basic fire applications • Programmable Over The Air through the FireLink Cloud. • Agency Compliance: UL 864 10th Ed., NFPA 72 Editions 2016, 2013, 2010, 2007; CSFM, NYCFD
FL-255FACP-LTVI 	**FireLink Dual Path StarLink powered self contained fire communicator / FACP.** • Supports 125 addressable points, expandable to 255 with additional GEMC-FW-SLC addressable module. • Supports 7 conventional zones, expandable to 255 zones max through analog addressable, wireless and convectional GEMC devices. • Includes integral dual path StarLink LTE Verizon fire dual path communicator • Fire annunciator mounted on front cover, supports up to 6 additional remote annunciators. • Includes 4 NAC circuits, 2A each @ 24V, supports Wheelock and Systems Sensor synchronization protocol. • System is completely prewired and assembled, just mount on wall, connect AC, ground, initiating and indicating devices and it is ready to go. • Requires direct 120V AC power connection • Cloud based programming using any mobile device • Agency Compliance: UL 864 10th Ed., NFPA 72 Editions 2016, 2013, 2010, 2007; CSFM, NYCFD

MODEL	DESCRIPTION
SLE-MAXV **SLE-MAXA** 	**Commercial Intrusion Radio Alarm Communicator** Black Plastic Enclosure Agency Compliance: • UL985 Household Fire Warning System • UL1023 Standard For Household Burglar-Alarm • UL1610 Standard For Central-Station Burglar-Alarm Units Powered by Control Panel Input: 12VDC (71mA w/peak RF transmission draw of 200mA).
SLE-MAXV-C **SLE-MAXA-C** 	**StarLink Connect Connected Home / Business Alarm Communicator** Dual Path, IP & Cellular Communicator with optional Wi-Fi Upload / Download Virtual Keypad Control iBridge Messenger Notifications Compatible with NAPCO, Honeywell, DSC
SLE-MAXV-Z **SLE-MAXA-Z** 	**StarLink Connect Connected Home / Business Z-Wave Alarm Communicator** Dual Path, IP & Cellular Communicator with optional Wi-Fi Upload / Download Virtual Keypad Control iBridge Messenger Notifications Connected Home Z-Wave Support Compatible with NAPCO, Honeywell, DSC
SLE-MAXV-CB-TF **SLE-MAXA-CB-TF** 	**Commercial Intrusion Alarm Communicator** White Metal Enclosure Agency Compliance: • UL985 Household Fire Warning System • UL1023 Standard For Household Burglar-Alarm • UL1610 Standard For Central-Station Burglar-Alarm Units Powered by Plug-in Transformer Input: 16.5 VAC /20VA Includes power supply/provisions for backup battery/charger
SLE-MAXV-CB **SLE-MAXA-CB** 	**Commercial Intrusion Alarm Communicator** White Metal Enclosure Agency Compliance: • UL985 Household Fire Warning System • UL1023 Standard For Household Burglar-Alarm • UL1610 Standard For Central-Station Burglar-Alarm Units Powered by Control Panel Input: 12VDC (71mA w/peak RF transmission draw of 200mA).
SLE-MAXV-CBTF-C **SLE-MAXA-CBTF-C** 	**Commercial Intrusion Smart Business Alarm Communicator** White Metal Enclosure Dual Path, IP & Celllular with optional Wi-Fi Upload / Download, Virtual Keypad Control, iBridge Messenger Notifications Compatible with NAPCO, Honeywell, DSC Agency Compliance: • UL1610 Standard For Central-Station Burglar-Alarm Units Powered by Plug-in Transformer Input: 16.5 VAC /20VA Includes power supply/provisions for backup battery/charger

MODEL		DESCRIPTION

The StarLink Omni series of extended antenna kits ensure that critical signals will be delivered, even in the most demanding applications by providing typical gains of 4 to 9 dBi.

The following all-inclusive kits include the SLE-ANTEX Antenna, high quality/low loss LMR 300 or 400 Coax Type N male to SMA male terminated cable, stainless steel coated cable clamps, stainless steel #10 screws and washers, one (1) SMA female to TNC male adapter for use with competitive communicators. Also includes the StarLink SLE-ANTEXT-ISO Commercial Fire Ground Fault Isolation Plate to ensure that the external antenna will not cause any ground fault system troubles.

SLE-ANTEXT04		SLE-ANTEXT04 includes 4 feet LMR 300 high quality/low loss Coax Type N male to SMA male terminated cable. Ideal for installations that may require a few extras dBs of gain but running the external cable may not be practical.
SLE-ANTEXT30		SLE-ANTEXT30 includes 30 feet LMR 300 high quality/low loss Coax Type N male to SMA male terminated cable and all accessories listed above.
SLE-ANTEXT50		SLE-ANTEXT50 includes 50 feet LMR 300 high quality/low loss Coax Type N male to SMA male terminated cable and all accessories listed above.
SLE-ANTEXT75		SLE-ANTEXT75 includes 75 feet LMR 400 high quality/low loss Coax Type N male to SMA male terminated cable and all accessories listed above.
SLE-ANTEXT100		SLE-ANTEXT100 includes 100 feet LMR 400 high quality/low loss Coax Type N male to SMA male terminated cable and all accessories listed above.
SLE-ANT		SLE-ANT Includes SLE-ANT Antenna, stainless steel mounting L bracket and isolation plate.
SLE-ANT-TGKIT		SLE-ANT-TGKIT includes adaptors that allow the use of existing Telguard antenna cable when updating a Telguard installation to a StarLink communicator with a StarLink SLE-ANT series Omni-directional antenna
SLE-ANTEXT-ISO		SLE-ANTEXT-ISO accessory designed to eliminate the possibility of ground fault system troubles in commercial fire applications.

NAPCO StarLink Communicator Compliance Summary

COMMUNICATOR MODEL		UL 1023 Residential Burg	UL 985 Household Fire	UL 864 10th Ed. Commercial Fire	UL 1610 or UL 2610 where applicable Commercial Intrusion	FDNY COA	CSFM	LAFD Sole Path	NFPA 72 Editions
SLE-MAX2-FIRE	 Commercial / Residential Fire / Burglary CAT-M1 alarm capture Communicator. SIM cards are included. Red plastic enclosure. Rated nominal 12/24VDC input	✓	✓	✓	✓	✓	✓	(Dual Path does not require LAFD evaluation)	2007, 2010, 2013, 2016, 2019, 2022
SLE-MAX2-CFB	 Commercial / Residential Fire / Burglary CAT-M1 TCP/IP Communicators in red metal housing	✓	✓	✓	✓	✓	✓	(Dual Path does not require LAFD evaluation)	2007, 2010, 2013, 2016, 2019, 2022
SLE-MAX2-CFBPS	 Commercial / Residential Fire / Burglary CAT-M1 TCP/IP Communicators in red metal housing with SLE-ULPS-R power supply and 16.5V / 20VA transformer mounted inside housing	✓	✓	✓	✓	✓	✓	(Dual Path does not require LAFD evaluation)	2007, 2010, 2013, 2016, 2019, 2022

StarLink Fire MAX2 Service Plan Overview

NAPCO ComNet Service Plan Menu

Following is the ComNet portal menu for the selection of the StarLink MAX2 Dual SIM service plans, with the new Super Dual™ service plans highlighted in red. See below for plan descriptions.

NFPA 2010 MAX Commercial Fire Dual Path Svc Plan
NFPA72 2010 - UL864 10th Ed. Dual SIM, Dual Path Commercial Fire Service Plan with 24 Hour Supervisn
6.95 EA
1 Click for Details

NFPA 2010 MAX Super Dual, Dual Path Svc Plan
NFPA72 2010 - UL864 10th Ed. Super Dual, Dual Path, Dual SIM Cellular Fire Svc Pln with 24 Hr Sprvsn
6.95 EA
2 Click for Details

NFPA Commercial Fire Svc Plan - Back-up Only
NFPA72 UL864 10th Ed. Dual SIM, Commercial Fire Serv Plan, Back up Communications, 24 Hr. Spvsn
6.95 EA
3 Click for Details

NFPA 2013/16/19 MAX Comm Fire Dual Path Srvc Plan
NFPA72 2013/16/19 - UL864 10th Ed. Dual SIM, Dual Path Commrcl Fire Serv Plan with 6 Hour Suprvsn
9.95 EA
4 Click for Details

NFPA 2013/16/19 MAX Comm Fire Sole Path Srvc Plan
NFPA72 2013/16/19 - UL864 10th Ed. Dual SIM, Sole Path Commrcl Fire Serv Plan with 60 Min. Suprvsn
9.95 EA
5 Click for Details Best Seller

NFPA 2013/16/19 MAX Super Dual, Dual Path Svc Plan
NFPA72 2013 - UL864 10th Ed. Super Dual, Dual Path, Dual SIM Cellular Fire Svc Pln with 6 Hr Sprvsn
9.95 EA
6 Click for Details

NFPA 2010 MAX 5M Commercl Fire Dual Path Svc Plan
NFPA72 2010 - UL864 10th Ed. Dual SIM, Dual Path Commercial Fire Service Plan with 5 Min Supervisn
16.95 EA
7 Click for Details

NFPA 2010 MAX Commercial Fire Sole Path Svc Plan
NFPA72 2010 - UL864 10th Ed. Dual SIM, Sole Path Commercial Fire Service Plan with 5 min. Suprvsn
16.95 EA
8 Click for Details

Note: Super Dual service plans require a MAX2 firmware revision of: 226.151.30.0.6 or greater.

To upgrade communicator to the latest, use the single button OTA "Firmware Download" feature on the NOC.

StarLink Fire MAX2 Service Plan Overview

1	NFPA 2010 MAX Commercial Fire Dual Path Svc Plan NFPA72 2010 - UL864 10th Ed. Dual SIM, Dual Path Commercial Fire Service Plan with 24 Hour Supervisn 6.95 EA Click for Details	SLF-SVC-10-MXI NFPA 2010 Dual Path • Cellular & IP Dual Sim (Verizon & AT&T) • 24 Hr NOC Cellular Supervisory Check-in • 24 Hr NOC IP Supervisory Check-in	**Traditional Dual Path 24-hour service plan (cellular and IP).** The system selects and locks onto the higher quality cellular carrier signal (primary) upon powerup and will reevaluate every 7 days. If secondary signal exhibits higher quality, the system will switch carriers. If the primary carrier fails, the system will immediately switch carriers.	**$6.95**
2	NFPA 2010 MAX Super Dual, Dual Path Svc Plan NFPA72 2010 - UL864 10th Ed. Super Dual, Dual Path, Dual SIM Cellular Fire Svc Pln with 24 Hr Sprvsn 6.95 EA Click for Details	SLF-SVC-10-MXD NFPA 2010 Dual Path • Dual Path Cellular Dual Sim (Verizon & AT&T) **SUPER DUAL™** • Supervised Dual Path, Dual Carrier • 24 Hr NOC Cellular Supervisory Check-in	**Super Dual™, Dual Path service plan (cellular only).** The system utilizes both cellular carriers to provide a UL 864 listed dual path service plan. An IP connection is not required. If either cellular carrier fails, the system will continue operating on the remaining carrier and will report the trouble to central station and locally annunciate the trouble.	**$6.95**
3	NFPA Commercial Fire Svc Plan - Back-up Only NFPA72 UL864 10th Ed. Dual SIM, Commercial Fire Serv Plan, Back up Communications, 24 Hr. Spvsn 6.95 EA Click for Details	SLF-SVC-BU-MX NFPA Sole Path • Cellular Dual Sim (Verizon & AT&T) • 24 Hr NOC Cellular Supervisory Check-in	**Sole Path 24-hour backup service plan (cellular only).** Intended to be used as a backup to existing CS communication. The system selects and locks onto the higher quality cellular carrier signal (primary) upon powerup and will reevaluate every 7 days. If secondary signal exhibits higher quality, the system will switch carriers. If the primary carrier fails, the system will immediately switch carriers.	**$6.95**
4	NFPA 2013/16/19 MAX Comm Fire Dual Path Srvc Plan NFPA72 2013/16/19 - UL864 10th Ed. Dual SIM, Dual Path Commrcl Fire Serv Plan with 6 Hour Suprvsn 9.95 EA Click for Details	SLF-SVC-13-MXI NFPA 2013-2022 Dual Path • Cellular & IP Dual Sim (Verizon & AT&T) • 6 Hr NOC Cellular Supervisory Check-in • 6 Hr IP Supervisory Check-in	**Traditional Dual Path 6-hour service plan (cellular and IP).** The system selects and locks onto the higher quality cellular carrier signal (primary) upon powerup and will reevaluate every 7 days. If secondary signal exhibits higher quality, the system will switch carriers. If the primary carrier fails, the system will immediately switch carriers.	**$9.95**

StarLink Fire MAX2 Service Plan Overview

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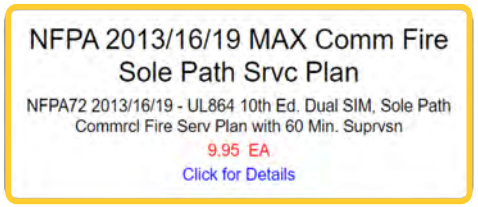

SLF-SVC-13-MX
NFPA 2013-2022
Sole Path • Cellular
Dual Sim (Verizon & AT&T)
• 60 Min Cellular NOC Supervisory Check-in

Sole Path 60-minute service plan (cellular only). **$9.95**
The system selects and locks onto the higher quality cellular carrier signal (primary) upon powerup and will reevaluate every 7 days. If secondary signal exhibits higher quality, the system will switch carriers. If the primary carrier fails, the system will immediately switch carriers.

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SLF-SVC-13-MXD
NFPA 2013-2022
Dual Path • Dual Path Cellular
Dual Sim (Verizon & AT&T)
SUPER DUAL™
• Supervised Dual Path, Dual Carrier
• 6 Hr NOC Cellular Check-in

Super Dual™, Dual Path service plan (cellular only). **$9.95**
The system utilizes both cellular carriers to provide a UL 864 10th edition listed dual path service plan. An IP connection is not required. If either cellular carrier fails, the system will continue operating on the remaining carrier, will report the trouble to central station and locally annunciate the trouble.

7

SLF-SVC-10-MSI
NFPA 2010
Dual Path • Cellular & IP
Dual Sim (Verizon & AT&T)
• 5 Min NOC Cellular Supervisory Check-in
• 5 Min NOC IP Supervisory Check-in
(NYFD Plan)

Traditional Dual Path 5-minute (NYFD) service plan (cellular and IP). **$16.95**
The system selects and locks onto the higher quality cellular carrier signal (primary) upon powerup and will reevaluate every 7 days. If secondary signal exhibits higher quality, the system will switch carriers. If the primary carrier fails, the system will immediately switch carriers.

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SLF-SVC-10-MX
NFPA 2010
Sole Path • Cellular
Dual Sim (Verizon & AT&T)
• 5 Min Cellular NOC Supervisory Check-in

Sole Path 5-minute service plan (cellular only). **$16.95**
The system selects and locks onto the higher quality cellular carrier signal (primary) upon powerup and will reevaluate every 7 days. If secondary signal exhibits higher quality, the system will switch carriers. If the primary carrier fails, the system will immediately switch carriers.

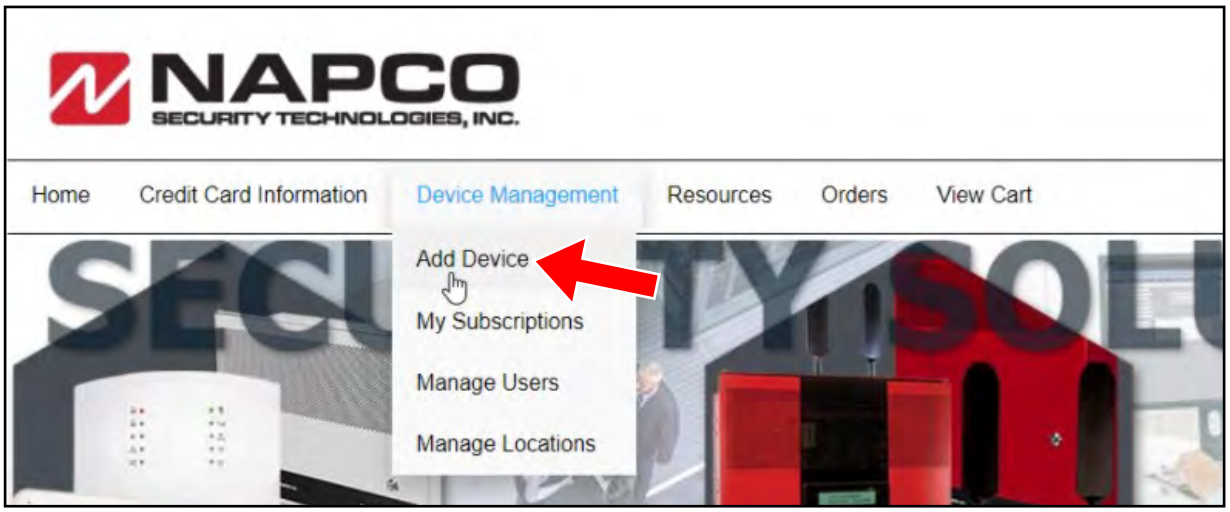
333 Bayview Avenue, Amityville, New York 11701
For Sales and Repairs, (800) 645-9445
For Technical Service, (800) 645-9440 or visit us at
http://tech.napcosecurity.com/
(Note: Technical Service is for security professionals only)
Publicly traded on NASDAQ Symbol: NSSC

NAPCO Remote Services
ComNet Activation Guide

WI2113E.aLF 6/24

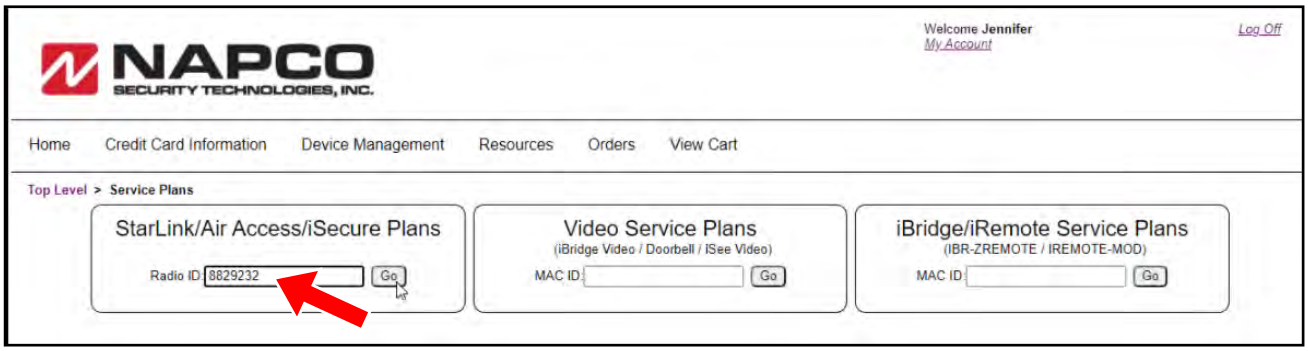
To activate a new Remote Service device, go to www.NapcoComnet.com and log into your dealer account. Proceed as follows:

1. At the top of the web page, select **Device Management > Add Device**.



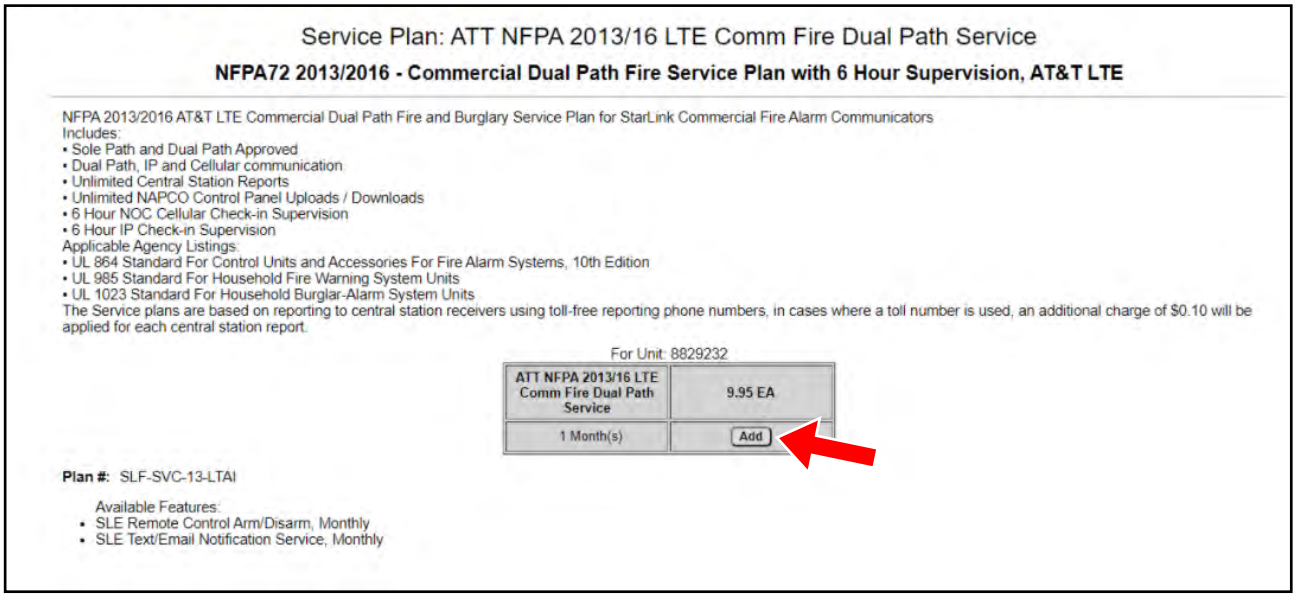
2. Click **Service Plans**.

3. Type the Device ID into the **Radio ID** field for the respective device **Service Plan**, then click **Go**.



4. Click the **Click for Details** text to review the details of the service plan.

5. Click **Add,** to add the service plan to the shopping cart.



6. Click **New** for a new subscriber or **Existing** to add the device to an existing account.

7. Type the new subscriber information, then click **Add Subscriber**.

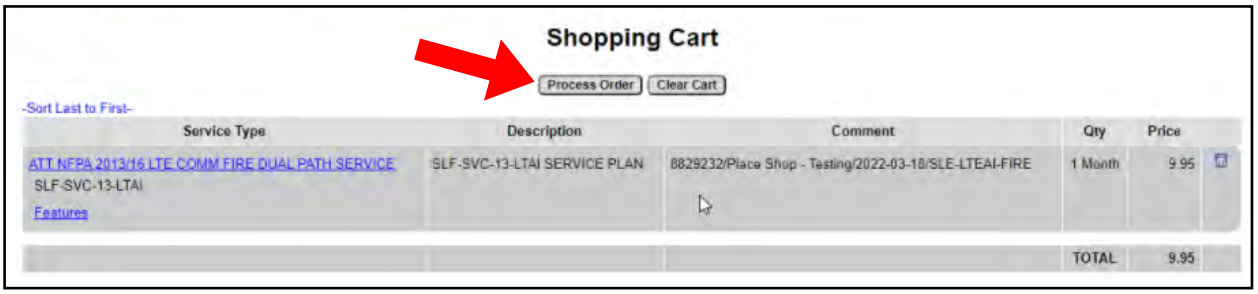
8. Review the subscriber information, then click **Add to Cart**.

9. Click **Close** if you do not want additional features.

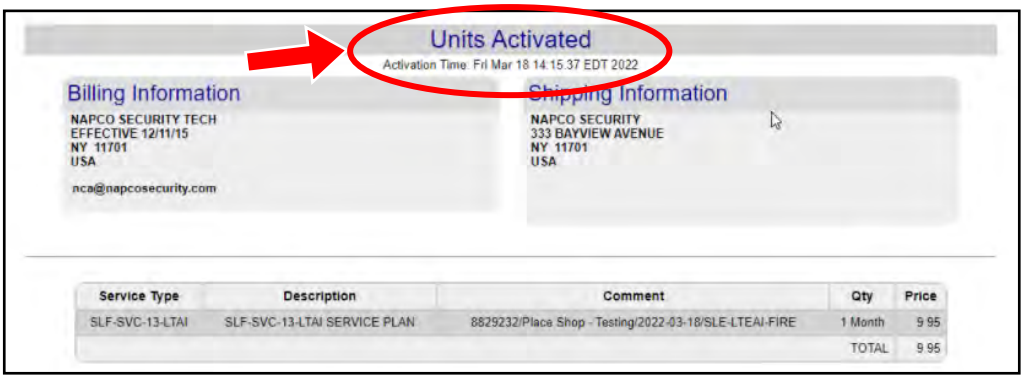
*If the **Process Order** button appears, continue below at step 10.*

*If your Shopping Cart has a **Checkout** button, go to step 12 to pay by credit card.*

10. In the **Shopping Cart**, (see below), click **Process Order**.

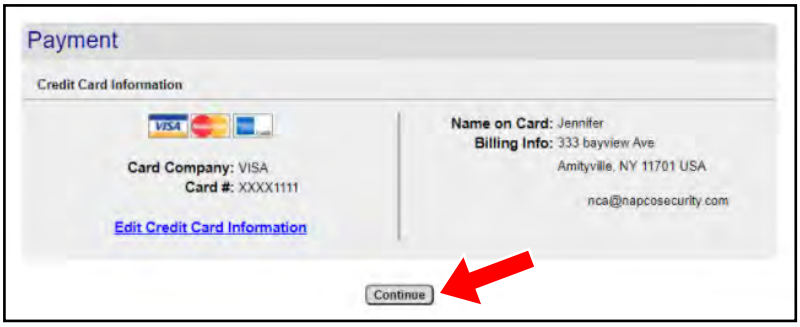


11. To complete the activation process, be sure the **Units Activated** screen appears!

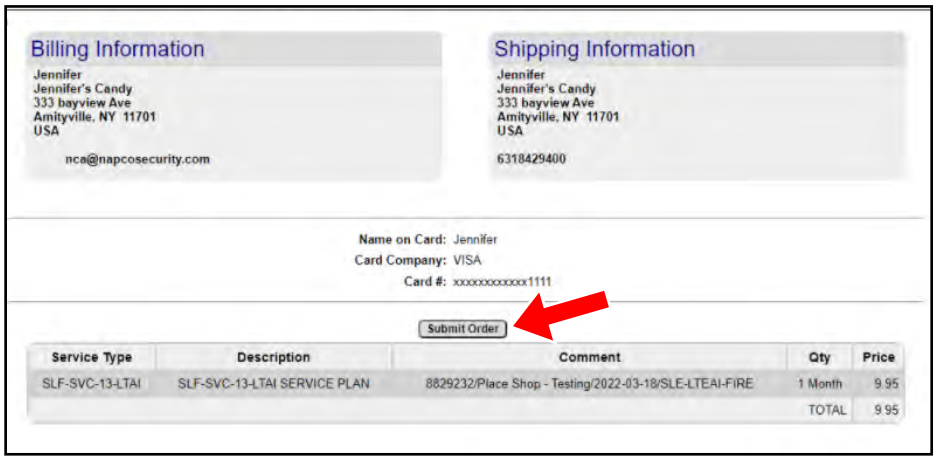


12. If you will pay by credit card, your **Shopping Cart** (see below) will have a **Checkout** button, click **Checkout** to pay by credit card.

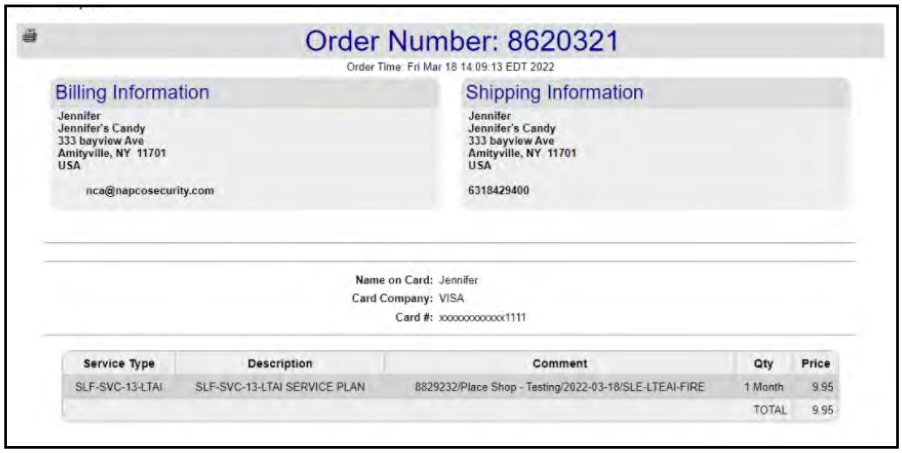
13. Verify your credit card information, then click **Continue**.



14. Review all information, then click **Submit Order**.



15. To complete the activation process, be sure the **Order Number** screen appears!



For NAPCO Limited Warranty, see https://tech.napcosecurity.com/index.php/techlibrary/docdetails/brand_id/1/doc_id/3174

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NAPCO Tech Support

TECH TIP

Date: Friday, April 12, 2024

Subject: Programming an SLE-MAX2 StarLink Communicator for SIA to CID Conversion

Models: StarLink SLE-MAX2-FIRE, SLE-MAX2-CFB and SLE-MAX2-CFB-PS

StarLink SLE-MAX2-series communicators support a SIA to CID conversion feature, where the communicator will automatically convert SIA format reporting codes to CID formatted codes. In addition, SLE-MAX2-series communicators include a default SIA to CID conversion template that can be edited to suit the special formatting requirements of your central station.

This SIA to CID conversion feature can be used when an FACP may only support SIA format or is locked-out or requires special programming to change the reporting format. Note that when this feature is enabled, SIA codes will not report to the central station; the communicator will convert the SIA codes directly to Contact ID. **Note:** Due to the fundamental limitations of SIA reporting codes compared with CID, the converted CID codes may not be the same as if the control panel was reporting CID codes directly. For example, CID can include an Area in the reporting string:

- Alarm: Code 130, Area 03, Zone 26

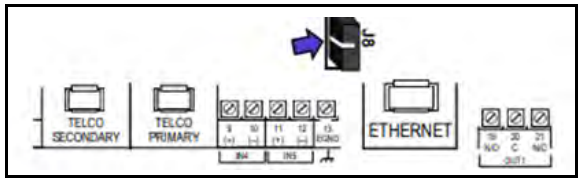
SIA codes do not include Areas; thus the conversion would be:

- Alarm: Code 130, Area 00, Zone 26

Therefore, if the control panel does not include an Area number with the SIA reporting code, the converted CID code will not include the Area number.

Before programming an SLE-MAX2-series StarLink communicator to convert SIA to CID, verify the communicator firmware is version 226.150.30/1.3 or higher, then proceed as follows:

1. Install the **SLE-MF-JMP** jumper into the communicator PC board header marked **J8** with the white line towards the left side of the communicator as shown:



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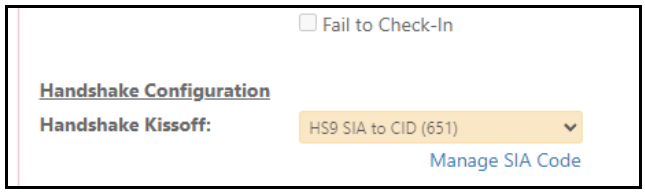
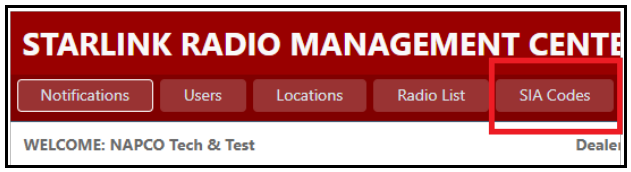
2. Log into the NAPCO NOC website (www.NapcoNOC.com), open the ***Advanced*** tab and set the **Handshake Kissoff** drop-down to **HS9 SIA to CID (651)**.



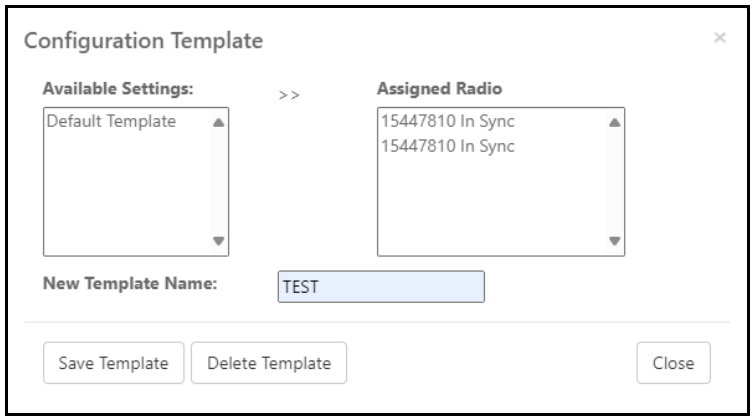
If the default template is used, stop here; no further steps are required. The default template will support most installations; however, you can create a custom template to convert SIA to CID if needed. If a custom template is needed, continue with the following steps.

3. In the NAPCO NOC website (www.NapcoNOC.com), select **SIA Codes**.



4. Select **Manager Template**.

5. Select the default template, type a new name for the template in the **New Template Name** field, select the **Save Template** button, then select **Close**.



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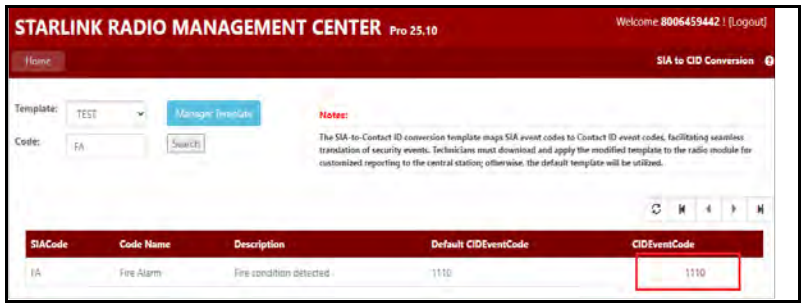
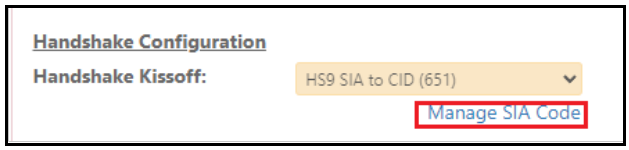
To change a CID code for the selected template, type the SIA code in the **Code** field and select **Search**. When the code appears in the search results, select the code, then select **Edit**.



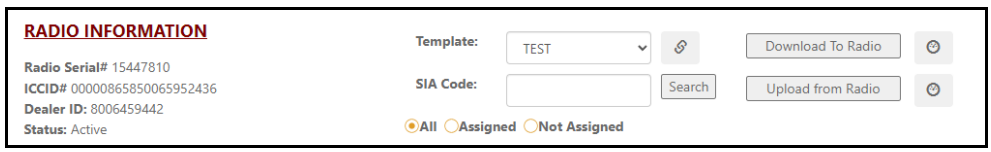
Insert a "**1**" in front of CID alarm codes:

Insert a "**3**" in front of CID restore codes:

Select **Save** to retain your changes. After saving, download the custom template to the communicator by opening the NAPCO NOC ***Advanced*** tab, then select **Manage SIA Code**.



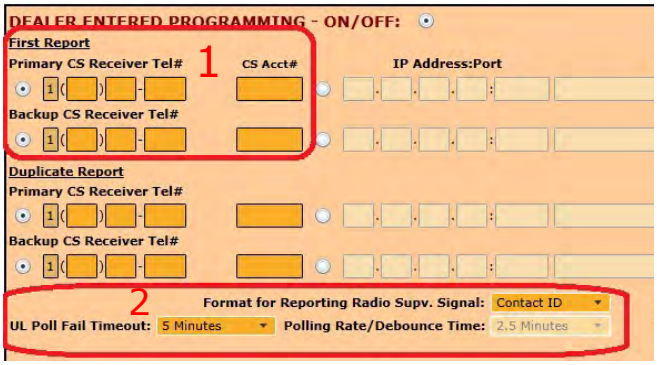
In the **Template** drop-down field, select the custom template name, then select **Download to Radio**.



Installation Quick Start / Checklist for Fire Alarm Control Panel DACT Connect Operation

WI2760LF 6/24

The following summarizes the minimum required NOC programming (http://NapcoNOC.com) and system wiring when connecting a StarLink Fire Communicator to the DACT of an FACP, utilizing dial capture mode reporting. Check the installation and programming instructions for additional wiring and programming options. Be sure all items in the following checklist are performed:

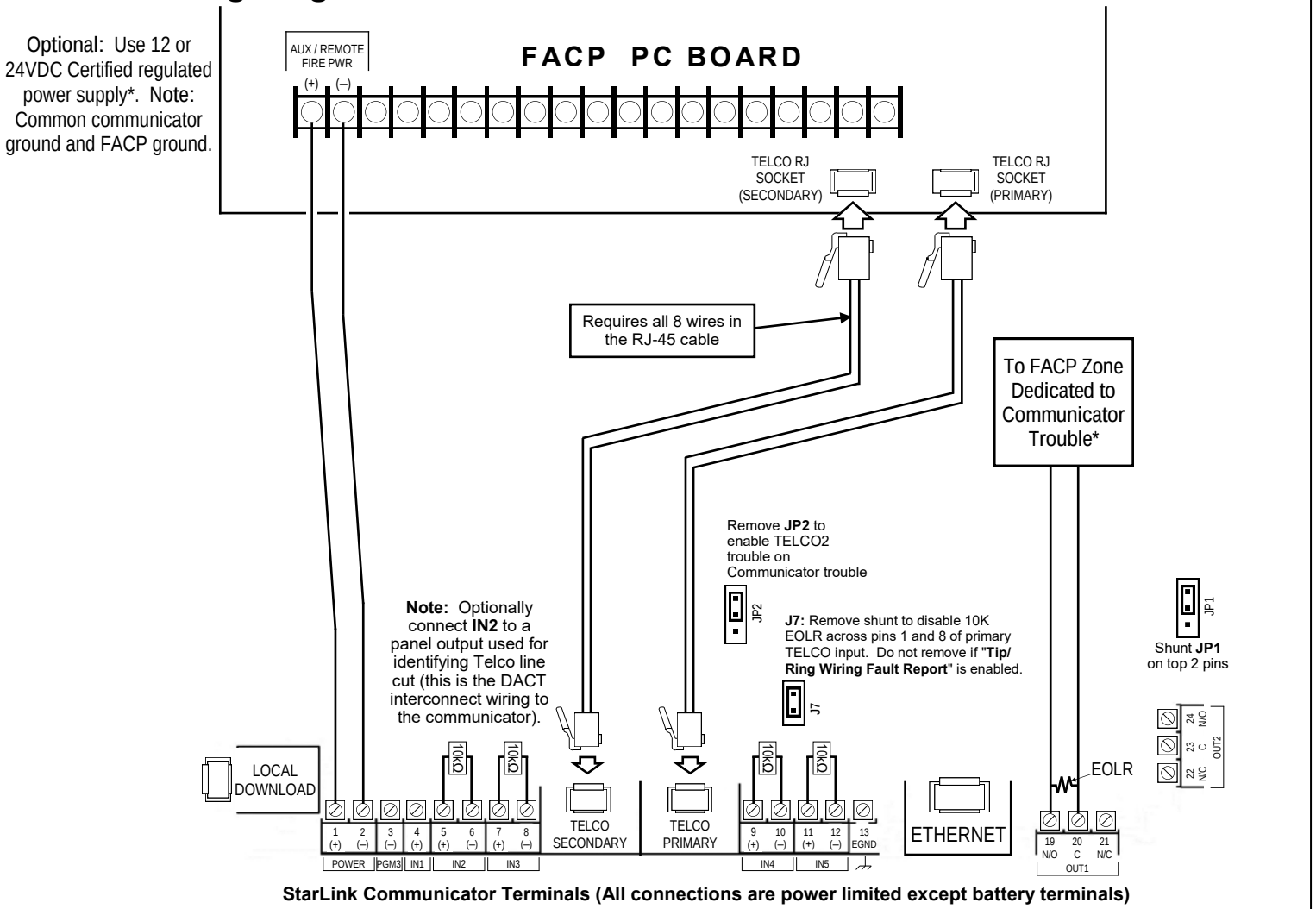


- ☐ **1.** Central Station Receiver Telephone numbers are programmed in the "**Dealer Entered Programming**" section (see image at right):
- ☐ **2.** **UL Poll Fail Timeout** is set (5 min. for NFPA 2010 plan; 60 min. for NFPA 2013 plan or 24hr backup only):
- ☐ **3.** (**OUT1**) is wired to a trouble zone in the FACP. Wire the control panel Listed EOLR across terminals 19 and 20 and ground terminal #8 to a zone or point programmed to monitor communicator troubles --OR--remove jumper **JP2** for automatic supervision.

UL Poll Fail Timeout Settings:

1 NFPA 2010, SLF-SVC-10-MXI Dual Path cellular/IP = 24 hr.
2 NFPA 2010, SLF-SVC-10-MXD Super Dual, Dual Path cellular = 24 hr.
3 NFPA Backup, Sole Path SLF-SVC-BU-MX , Cellular = 24 hr.
4 NFPA 2013-2022, SLF-SVC-13-MXI, Dual Path Cellular & IP = 6 hr.
5 NFPA 2013-2022, SLF-SVC-13-MX, Sole Path, Cellular = 60 min.
6 NFPA 2013-2022 SLF-SVC-13-MXD, Super Dual, Dual Path cellular = 6 hr.
7 NFPA 2010, NYFD, SLF-SVC-10-MSI Dual Path Cellular & IP = 5 min.
8 NFPA 2010, SLF-SVC-10-MX, Sole Path, Cellular = 5 min.

Wiring Diagram for Generic FACPs with TELCO RJ Sockets



StarLink Communicator Terminals (All connections are power limited except battery terminals)

*Not required if **JP2** shunt is removed and FACP monitors TELCO 2.

Note: For NAPCO control panel downloading or remote upgrading of communicator firmware, radio jumper X5_J1 must be removed. Upon activation of the fire trouble relay (open between blue and red harness wires), a fire trouble signal will be transmitted to the central station. For StarLink models SLECDMA-CFB-PS and SLE3/4G-CFB-PS, connect to charger board terminal labeled N/O. If using external relay for radio supervision, relay must be rated for radio input voltage, (12VDC, max current draw=50mA OR 24VDC, max current draw=25mA). A listed low current relay, such as *Space Age Electronics* model SSU-MR-311/C/R is recommended.

NAPCO Tech Support

TECH TIP

Subject: Triggering Radio Inputs from FACP Relays for Dual Path Fire Communicators

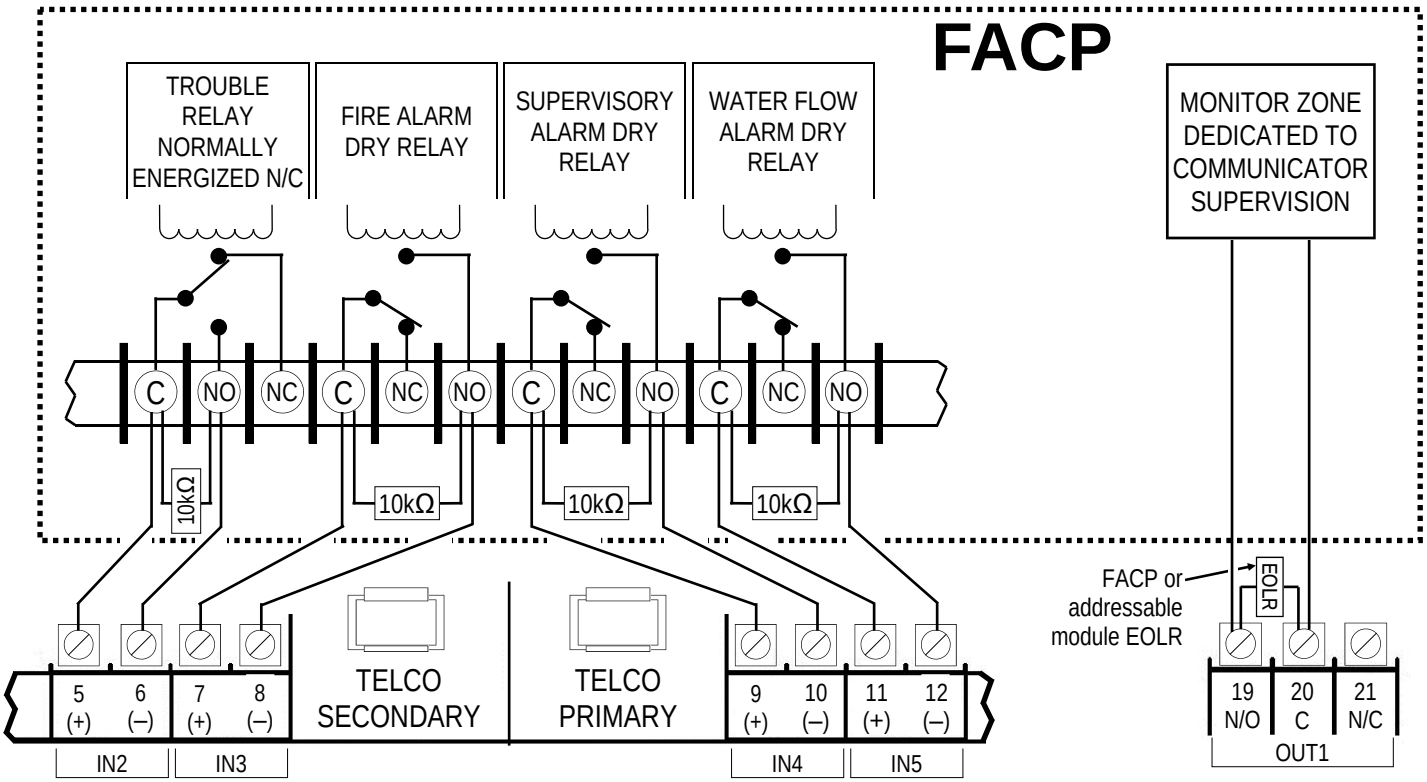
Models: SLE-MAX2-FIRE, SLE-MAX2-CFBPS, SLE-MAX2-CFB

The new StarLink Fire dual path communicator models include the following features:

- Four EOLR zone inputs for connection to FACP relay outputs, providing communication capability to older legacy control panels that may not include a DACT
- Two form "C" relay outputs, eliminating the need for additional listed supervision relays
- Modular style Telco jacks for connection to the FACP DACT

This Tech Tip describes how to connect and configure the (4) zone inputs and supervision relay.

Wire inputs 2-5 to the corresponding relays on the FACP using the supplied 10K EOLRs, as shown below. A short sends an alarm; an open sends a trouble. Wire **OUT1** to a radio trouble zone/point on the FACP, placing the FACP EOLR across the communicator **OUT1** relay **N/O** and **C** terminals. No NOC configuration is required for **OUT1** to function as a communicator supervisory output by default.

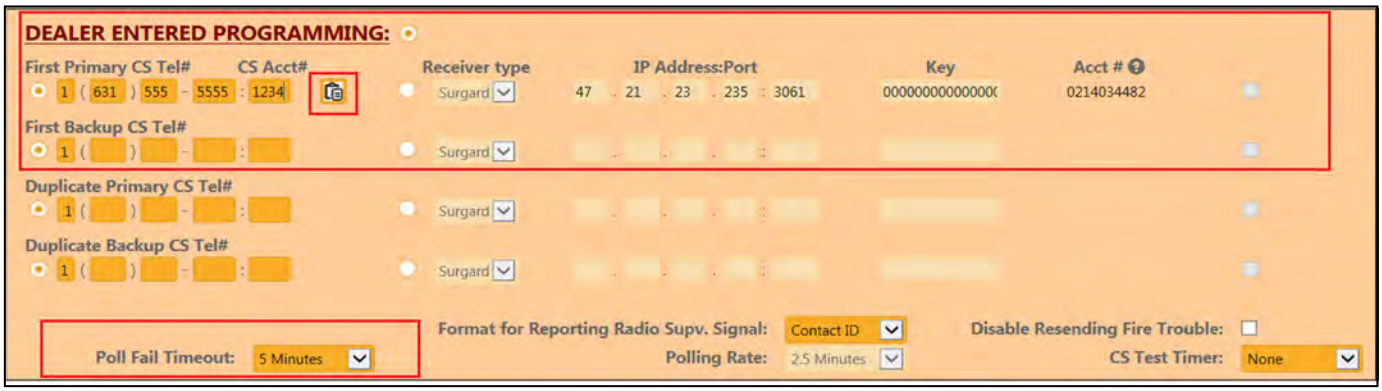


After the communicator is registered, log into the StarLink Radio Management Center (also known as the NAPCO "NOC") at www.NapcoNOC2.com.

(continued)

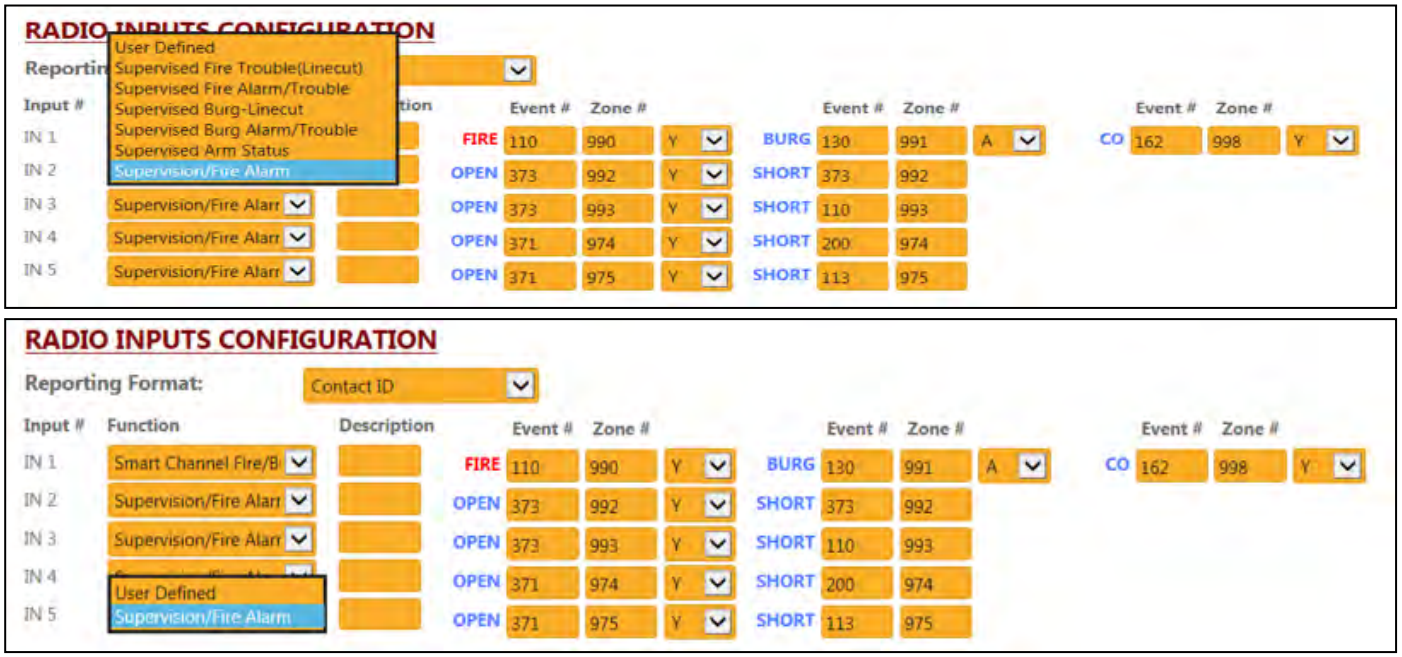
General Tab

1. Click the **Edit** button, then click the radio button located to the right of **DEALER ENTERED PROGRAMMING** to enable.
2. Program the Central Station Primary and Backup telephone and account numbers or IP receiver information.
3. Click the "Copy to Clipboard" icon to enable the inputs to report to the central station.
4. Set the **Poll Fail Timeout** duration to match the selected plan (200 Seconds, 5 Minutes, 60 Minutes, 6 Hours (dual path) or 24 Hours).



Inputs and Outputs Tab

Program inputs 2 through 5 to **Supervision/Fire Alarm**.



Default Input Programming:

- **IN2** - FACP Trouble (CID code 373)
- **IN3** - Fire Alarm (CID code 110)
- **IN4** - Supervisory (CID code 200)
- **IN5** - Water Flow (CID code 113)

Note: This Tech Tip example used the Contact ID reporting defaults indicated above. Reporting codes can be changed in the NOC as needed for other fire reporting applications (e.g. Low pressure, Fire Pump Run/Fail, Carbon Monoxide, etc.). After all changes have been made, click **Save**.

StarLink™ SLE-MAX2-FIRE

Sole/Dual-Path Alarm Communicator Submittal Data Sheet

SLE-MAX2-FIRE
Commercial / Residential Fire / Burglary CAT-M1 alarm capture Communicator. SIM cards are included. Red plastic enclosure. Rated nominal 12/24VDC input.

INTRODUCTION

The **SLE-MAX2-FIRE** *Sole/Dual-Path Alarm Communicator is* specifically designed to interface with FACP (Fire Alarm Control Panels) and comply with UL 864 10th edition. The **SLE-MAX2-FIRE** operates on both the Verizon and AT&T cellular networks and utilizes CAT-M1 technology. This device supports both Sole Path, cellular only; Traditional Dual Path, cellular and IP; and Super Dual™, Supervised Dual Carrier and Dual Path communication methods. Super Dual™, exclusive to NAPCO, is a UL 864 10th edition Certified fire communication service that allows the communicator to utilize two cellular carriers to provide dual path reporting. This is accomplished through the supervision of each carrier at the required NFPA intervals, i.e., 6 Hour supervision for NFPA 2013 through 2022.

For Dual Path cellular/IP reporting, the system can communicate via an on-board Ethernet jack or via Wi-Fi using the optional UL 864 Certified **SLE-WIFI-MODULE**. The communication mode (Sole Path or Dual Path) requires selection of the appropriate service plan at the point of communicator activation. The communicator is equipped with two form "C" dry relays, one for a trouble output and one for an auxiliary output. The unit is also equipped with four EOLR supervised inputs to report a Fire Alarm, a Fire Trouble, a Water Flow Alarm and a Supervisory Alarm, each triggered from the N/O and Common terminals of the associated FACP output relays. This communicator is for use as the primary means of communication with the central station and do not have backup mode capability. This communicator can also be utilized as a Sole Path Cell communicator. No POTS (Telco Line) connection is permitted. For Commercial Burglary installations, under the armed condition, any loss of communication must be treated as a Burglary Alarm at the central station.

For connection to the FACP DACT, the **SLE-MAX2-FIRE** provides two RJ-45 Telco connections to satisfy the FACP telephone requirements. The primary Telco connector can be supervised and can report a trouble signal to the central station upon any open or short on the primary Telco wires that prevents reporting. The secondary telephone line is supervised by the FACP; when a line fault is detected, a signal trouble is reported to the central station through the primary telephone line.

The **SLE-MAX2-FIRE** is compatible with most 12VDC or 24VDC alarm control panels (always adhere to the documentation provided by the control panel manufacturer). Mount to a single-, dual-, or three-gang electrical box and route the wires through the back knock-out(s), or as specified by local codes. **See WI2140 for programming information.**

Summary of Supported Reporting Plans

Sole Path Service Plan (Cellular-only, Verizon & AT&T)

The system selects and locks onto the higher quality cellular carrier signal (primary) upon power up and will reevaluate every 7 days. If the secondary signal exhibits higher quality, the system will switch carriers. If the primary carrier fails, the system will immediately switch carriers.

Traditional Dual Path Service (Cellular, Verizon & AT&T, and IP)

The system selects and locks onto the higher quality cellular carrier signal (primary) upon power up and will reevaluate every 7 days. If the secondary signal exhibits higher quality, the system will switch carriers. If the primary carrier fails, the system will immediately switch carriers. Also requires an IP connection to the subscriber's network via the on-board Ethernet jack. **Note:** The cable modem/router and switch (if any) at the premises requires standby power; therefore a UL 1481, UL 864 or ITE (*Information Technology Equipment*) Certified UPS must be used at the premises to power these devices for 24 hours (unless an engine-driven generator is provided on the premises, then only 4 hours of UPS backup are required).

Super Dual™, Dual Path Service (Cellular-only, Verizon & AT&T)

The system utilizes both cellular carriers to provide a UL 864 Certified dual path service plan. An IP connection is not required. If either cellular carrier fails, the system will continue operating on the remaining carrier and will report the trouble to the central station and will locally annunciate the trouble.

The **SLE-MAX2-FIRE** communicators use proprietary data-capture technology that captures the alarm report from the control panel and transmits the alarm signals to the SLE Control Center (NAPCO NOC); the alarm signals are then forward-

AGENCY LISTINGS

- ETL Listed: All Models Conform to UL Standards: UL 864, UL 2610, UL 985, UL 1023
- New York City Certificate of Approval 2023-TMCOAP-010503-CERT
- CSFM LISTING No.: 7300-0992:0503
- UL Certified to UL 864 10th Edition, UL 2610, UL 985 and UL 1023

ed to ANY central station. The communicator can transmit to any central station capable of receiving SIA Contact ID or 4/2 via DACR technology or the DSC Sur-Gard Model System II or Sur-Gard System V central station receivers, Bosch D6100IPV6 or Bosch D6600 Receiver (with ITS-D6686 Ethernet Adapter) via TCP/IP using standard line security.

The **SLE-MAX2** Series of Communicators are provided with two antennas to reduce the possibility of RF nulls and ensure reliable cellular service. Only one antenna is active at a time, and should the communicator have a loss of adequate signal strength, the communicator will connect to the tower via the other antenna. If neither antenna can connect to the tower within 200 seconds, a trouble output will be activated. If using an external antenna such as from the NAPCO StarLink SLE-ANTEXTXXX Series of Extended Antenna Kits, connect it to the left antenna connector.

StarLink Fire Self-Supervision

NFPA 72 requires that any fire communicator trouble be locally annunciated by the fire panel within 200 seconds of the trouble. The troubles include loss of signal, NOC supervision check-in failure, etc. The StarLink MAX2 Fire communicator models include a "**Self-Supervising Fire Communicator**" feature that allows the communicator to annunciate a communication trouble without the need for wiring to an FACP zone input or any FACP reprogramming. This is accomplished by dropping the emulated phone line voltage to the FACP secondary phone line, causing the FACP to annunciate a communication trouble. To enable Self-Supervision, simply remove Jumper **JP2**. Note that when using Self-Supervision, some FACPs may require the Jumper **J7** shunt to be removed for the Primary Phone line to restore correctly. To also report a communicator trouble to the central station, enable the feature "**Tip/Ring Wiring Fault Report**" in the ***Advanced*** tab in the StarLink NOC.

ADDITIONAL COMPONENTS

In addition to the **SLE-MAX2-FIRE** listed above, the following sub-assemblies are available:

SLE-WIFI-MODULE - Allows your NAPCO StarLink device to connect to the Internet by means of a wireless (Wi-Fi) link, eliminating a wired Ethernet cable connection. **Note:** 7AH battery required when using the **SLE-WIFI-MODULE**. For more information, see WI2191. Not Certified for Commercial or Residential Burglary.

SLE-FIRE-VR - Control Panel Voltage Drop Kit (see WI2580).

SLE-FMBB - StarLink Metal Enclosure for Cable Management.

SLE-DLCBL - Download Cable, 6 feet.

SLE-ANTEXT30 – Antenna kit* with 30 feet of LMR 300 cable.

SLE-ANTEXT50 - Antenna kit* with 50 feet of LMR 300 cable.

SLE-ANTEXT75 - Antenna kit* with 75 feet of LMR 400 cable.

SLE-ANTEXT100 - Antenna kit* with 100 feet of LMR 400 cable.

SLE-ANTEXT04 - Antenna kit * with 4 feet of LMR 300 cable. Ideal for installations that may require a few extras dBs of gain but running the external cable may not be practical.

SPECIFICATIONS

Electrical Ratings for +12V / 24V (powered by the control panel)[†]

- Input Voltage: 10-24VDC regulated (power-limited output from Certified control panel Aux/Remote Fire Power).

IMPORTANT: Powering the communicator with DC voltage above 27.5VDC could cause damage; if the control panel output voltage is operating between 27.5 - 30.7VDC, the **SLE-FIRE-VR** *Control Panel Voltage Drop Kit* is available to maintain the communicator input voltage below 27.5VDC. **Absolute maximum input voltage with SLE-FIRE-VR installed is 30.7VDC and FWR (Full Wave Rectification voltage) is NOT supported**.

- Input Current:
  10VDC standby: 115mA
  12VDC standby: 101mA
  15VDC standby: 92mA
  24VDC standby: 85mA
  Wi-Fi Module: (Optional) Add 45mA to the above.
  (With peak RF transmission current of 325mA).

Electrical Ratings for the IN 1 Fire Input:

- Input Voltage: 9-25VDC.
- Maximum Input Current: Up to 2mA from FACP NAC circuit

Electrical Ratings for IN 2, IN 3, IN 4, and IN 5:
(Inputs **IN 2, IN 3, IN 4, and IN 5 are** Class B)

- Maximum Loop Voltage: 25VDC input.
- Maximum Loop Current: 1.7mA
- End of Line Resistor (EOLR) Value: 10K

Electrical Ratings for PGM3 Output:

- Open Collector Output: Maximum Voltage 25VDC.
- Maximum PGM Sink Current: 50mA (up to 15VDC), 25mA (15.1VDC - 25VDC)

Physical (W x H x D)

- Plastic Housing: 8 x 5-$^{29}/_{64}$ x 1½" (20.3 x 13.9 x 3.8cm)
- Mounting: Plastic housing includes three keyhole slots for triple gang boxes (see scale template on page 13);
- Antenna Length: 8.25" (21cm)

Environmental

- Operating Temperature: 0°C - 49°C (32°F - 120°F)
- Humidity: Maximum 93% Non-Condensing
- Indoor / dry location use only

[†]For Commercial Fire installations, a UL Certified Fire Alarm regulated power supply or FACP regulated auxiliary output is required.

*All antenna kits include high quality/low loss LMR 300 or 400 Coax Type N male to SMA male terminated cable, all mounting hardware and StarLink SLE-ANTEXT-ISO Commercial Fire Ground Fault Isolation Plate to ensure that the external antenna will not cause ground fault system troubles. (Any suitable external cellular antenna is permitted by UL). Always follow the manufacturer's installation instructions. **Note:** Antennas are not Certified by UL.

StarLink™

SLE-MAX2-CFB & SLE-MAX2-CFBPS

Sole/Dual-Path Alarm Communicators Submittal Data Sheet

SLE-MAX2-CFB: Commercial / Residential Fire / Burglary CAT-M1 TCP/IP Communicators in red metal housing.

SLE-MAX2-CFBPS: Commercial / Residential Fire / Burglary CAT-M1 TCP/IP Communicators in red metal housing with SLE-ULPS-R power supply and 16.5V / 20VA transformer mounted inside housing.

INTRODUCTION

The **SLE-MAX2-CFB** and **SLE-MAX2-CFBPS** *Sole/Dual-Path Dual SIM Commercial / Residential Fire alarm capture IP communicators* are specifically designed to interface with FACP (Fire Alarm Control Panels) and comply with UL 864 10th edition. The **SLE-MAX2-CFB** and **SLE-MAX2-CFBPS** operate on both the Verizon and AT&T cellular networks and utilize CAT-M1 technology. These devices support both Sole Path, cellular only; Traditional Dual Path, cellular and IP; and Super Dual™, Supervised Dual Carrier / Dual Path communication methods. Super Dual™, exclusive to NAPCO, is a UL 864 10th edition Certified fire communication service that allow the communicators to utilize two cellular carriers to provide dual path reporting. This is accomplished through the supervision of each carrier at the required NFPA intervals, i.e., 6 Hour supervision for NFPA 2013 through 2022.

For dual path cellular/IP reporting, the system can communicate via an on-board Ethernet jack or via Wi-Fi using the optional UL 864 Certified **SLE-WIFI-MODULE**. The communication mode (Sole Path or Dual Path) requires selection of the appropriate service plan at the point of communicator activation. The communicators are equipped with two form "C" dry relays, one for a trouble output and one for an auxiliary output. The units are also equipped with four EOLR supervised inputs to report a Fire Alarm, a Fire Trouble, a Water Flow Alarm and a Supervisory Alarm, each triggered from the N/O and Common terminals of the associated FACP output relays. These communicators are for use as the primary means of communication with the central station and do not have backup mode capability. These Communicators can also be utilized as Sole Path Cell Communicators. No POTS (Telco Line) connection permitted (this communicator model only emulates a telephone line to the control panel and is not equipped with hardware that can monitor a live POTS telephone line). To accommodate the two network SIM cards, several features are provided in the NAPCO NOC Radio Carrier screen (www.NapcoNOC.com). In addition, LEDs and a manual pushbutton, if so equipped, are provided on the radio PCB.

For connection to the FACP DACT, the **SLE-MAX2-CFB** and **SLE-MAX2-CFBPS** provide two RJ-45 Telco connections to satisfy the FACP telephone requirements. The primary Telco connector can be supervised and can report a trouble signal to the central station upon any open or short on the primary Telco wires that prevents reporting. The secondary telephone line is supervised by the FACP; when a line fault is detected, a signal trouble is reported to the central station through the primary telephone line.

The communicators are compatible with most 12VDC or 24VDC alarm control panels (always adhere to the documentation provided by the control panel manufacturer). **See WI2140 for programming information.** The following features are included with models that include a **SLE-ULPS-R** power supply:

- Power limited output to the StarLink PCB 12V input terminals
- Battery connection red and black flying leads
- Monitored battery charging and Active battery test circuits
- StarLink communicator trouble input (from StarLink PC board **PGM1** terminal to detect StarLink communicator trouble)
- Requires a sealed lead acid min 4AH / max 7AH battery for minimum 24-hour standby time (max charge current 200mA)
- Trouble relay output (**C**, **N/O** and **N/C** terminals) to wire to a panel zone dedicated to "Communicator Trouble" (dry contacts). Remove jumper "**J2**" to isolate relay OUT1 common from ground
- Green **AC ON** LED visible from the exterior housing

The housing-mounted transformer (when provided) is mounted inside its own housing compartment with a replaceable UL Certified .5A fast blow primary fuse. 120VAC connections are to be made by a licensed electrician using suitable connectors, in accordance with N.E.C. and local code requirements.

Summary of Supported Reporting Plans

Sole Path Service Plan (Cellular-only, Verizon & AT&T)

The system selects and locks onto the higher quality carrier signal (primary) upon power up and reevaluates every 7 days. If the secondary signal exhibits higher quality, the system switches carriers. If the primary carrier fails, the system immediately switches carriers.

Traditional Dual Path Service (Cellular, Verizon & AT&T, and IP)

The system selects and locks onto the higher quality cellular carrier signal (primary) upon powerup and will reevaluate every 7 days. If secondary signal exhibits higher quality, the system will switch carriers. If the primary carrier fails, the system will immediately switch carriers. Also requires an IP connection to the subscriber's network, via the on-board Ethernet jack. **Note:** The cable modem/router and switch (if any) at the premises requires standby power, therefore a UL 1481, UL 864 or ITE (*Information Technology Equipment*) Certified UPS must be used at the premises to power these devices for 24 hours (unless an engine driven generator is provided on the premises, then only 4 hours of UPS backup are required).

Super Dual™, Dual Path Plan (Cellular-only, Verizon & AT&T)

The system utilizes both cellular carriers to provide a UL 864 Certified dual path service plan. An IP connection is not required. If either cellular carrier fails, the system will continue operating on the

AGENCY LISTINGS

- ETL Listed: All Models Conform to UL Standards: UL 864, UL 2610, UL 985, UL 1023
- New York City Certificate of Approval 2023-TMCOAP-010503-CERT
- CSFM LISTING No.: 7300-0992:0503
- UL Certified to UL 864 10th Edition, UL 2610, UL 985 and UL 1023

remaining carrier and will report the trouble to central station and locally annunciate the trouble.

The communicators use proprietary data-capture technology that captures the alarm report from the control panel in CID, SIA or 4/2 (SIA only evaluated by UL) and transmits the alarm signals to the SLE Control Center. The alarm signals are then forwarded to ANY central station via Contact ID, (SIA is translated to CID by the communicator see WI2140 in the NOC) or 4/2 via DACT from the NOC or to the Napco Virtual IP Central Station Receiver (NCSR), or Sur-Gard System II, Sur-Gard System V, Bosch D6100IPV6 or Bosch D6600 Receiver (with ITS-D6686 Ethernet Adapter) via TCP/IP using standard line security (for Commercial Burglary installations only IP Receivers may be used). The SLE Control Center reports a trouble signal in the event that the network does not receive the expected supervision signal from the wireless communicator.

The StarLink **MAX2** Series of Communicators are provided with two antennas. Only one antenna is active at a time, and should the communicator have a loss of adequate signal strength, the communicator will connect to the tower via the other antenna. If neither antenna can connect to the tower within 200 seconds, a trouble output will be activated. If using an external antenna such as from the NAPCO StarLink **SLE-ANTEXTXXX** Series of Extended Antenna Kits, connect it to the left antenna connector.

StarLink Fire Self-Supervision

NFPA 72 requires that any fire communicator trouble be locally annunciated by the fire panel within 200 seconds of the trouble. The troubles include loss of signal, NOC supervision check-in failure, etc. The StarLink MAX2 Fire communicator models include a "**Self-Supervising Fire Communicator**" feature that allows the communicator to annunciate a communication trouble without the need for wiring to an FACP zone input or any FACP reprogramming. This is accomplished by dropping the emulated phone line voltage to the FACP secondary phone line, causing the FACP to annunciate communication trouble. To enable Self-Supervision, simply remove Jumper **JP2**. Note that when using Self-Supervision, some FACPs may require the Jumper **J7** shunt to be removed for the Primary Phone line to restore correctly. To also report a communicator trouble to the central station, enable the feature "**Tip/Ring Wiring Fault Report**" in the ***Advanced*** tab in the StarLink NOC.

ADDITIONAL COMPONENTS

SLE-ULPS-R - Power Supply. Required for installations where the control panel cannot provide the Auxiliary power required to operate the StarLink communicator. Uses a standard 4AH / 12V minimum (7AH maximum, required with optional Wi-Fi Module) rechargeable battery to provide communicator standby power. Requires connection to either the model NAPCO TRF12/T123 (16.5V / 20VA) external plug-in transformer or the chassis-mounted 16.5VAC / 20VA transformer affixed inside the housing (see wiring diagrams in WI). **Note:** For models without the SLE-ULPS-R, connect the communicator terminals 1 and 2 to the control panel Aux Power terminals (observing polarity).

SLE-WIFI-MODULE - Allows your NAPCO StarLink™ device to connect to the Internet by means of a wireless (Wi-Fi) link, eliminating a wired Ethernet cable connection. **Note:** 7AH battery required when using the **SLE-WIFI-MODULE**. For more information, see WI2191. Not UL Certified for Commercial or Residential Burglary.

SLE-FIRE-VR - Control Panel Voltage Drop Kit (see WI2580).

SLE-FMBB - StarLink Metal Enclosure for Cable Management.

SLE-DLCBL - Download Cable, 6 feet

SLE-ANTEXT30 – Antenna kit* with 30 feet of LMR 300 cable.

SLE-ANTEXT50 - Antenna kit* with 50 feet of LMR 300 cable.

SLE-ANTEXT75 - Antenna kit* with 75 feet of LMR 400 cable.

SLE-ANTEXT100 - Antenna kit* with 100 feet of LMR 400 cable.

SLE-ANTEXT04 - Antenna kit * with 4 feet of LMR 300 cable. Ideal for installations that may require a few extras dBs of gain but running the external cable may not be practical.

GEM-Tamperkit - Tamper switches & screws to protect metal housing.

SPECIFICATIONS

The specifications below apply to all communicator models unless otherwise stated:

Electrical Ratings for 120VAC, 60Hz
For Models with Power Supply (SLE-MAX2-CFBPS)

- Input Voltage: 120VAC nominal
- Input Current: 200mA maximum
- Maximum Charging Current: 200mA

Electrical Ratings for +12V / 24V
For Models without Power Supply (SLE-MAX2-CFB)[†]

- Input Voltage: 10-24VDC regulated (power-limited output from UL Certified control panel Aux/Remote Fire Power).
- Input Current:
  10VDC standby: 115mA
  12VDC standby: 101mA
  15VDC standby: 92mA
  24VDC standby: 85mA

Wi-Fi Module: (Optional) Add 45mA to the above.
(With peak RF transmission current of 325mA).

Electrical Ratings for the IN 1 Fire Input:

- Input Voltage: 9-25VDC.
- Maximum Input Current: Up to 2mA from FACP NAC circuit

Electrical Ratings for IN 2, IN 3, IN 4, and IN 5:
(Inputs **IN 2, IN 3, IN 4, and IN 5 are** Class B)

- Maximum Loop Voltage: 25VDC.
- Maximum Loop Current: 1.7mA
- End of Line Resistor (EOLR) Value: 10K (2 req'd)

Electrical Ratings for PGM3 Output:

- Open Collector Output: Maximum Voltage 3V when active; 25V maximum when not active.
- Maximum PGM Sink Current: 50mA (up to 15VDC), 25mA (15.1VDC - 25VDC)

Physical (W x H x D)

- Metal Housing: 11½ x 9½ x 3½" (29.2 x 24.1 x 8.9cm)
- Mounting: Metal housing includes two keyhole slots for wall mounting (see measurements in WI)
- Antenna Length: 8.25" (21cm)

Environmental

- Operating Temperature: 0°C - 49°C (32°F - 120°F)
- Humidity: Maximum 93% Non-Condensing
- Indoor / dry location use only

[†]For Commercial Fire installations, a UL Certified Fire Alarm regulated power supply or FACP regulated auxiliary output is required.

*All antenna kits include high quality/low loss LMR 300 or 400 Coax Type N male to SMA male terminated cable, all mounting hardware and StarLink SLE-ANTEXT-ISO Commercial Fire Ground Fault Isolation Plate to ensure that the external antenna will not cause ground fault system troubles. (Any suitable external cellular antenna is permitted by UL). Always follow the manufacturer's installation instructions. **Note:** Antennas are not Certified by UL.

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StarLink MAX2-Series

Dual Path Fire Communicators Using Super Dual™ SIM Supervision

AHJ Inspection Guide and Super Dual™ SIM Supervision Test Procedures

WI2752LF 6/24

The StarLink MAX2 series supports Super Dual™ UL 864 10th edition listed service providing two fully supervised cellular reporting paths (AT&T and Verizon), as an alternative to traditional cell/IP dual path reporting, eliminating the need for an IP connection when dual path reporting is required. It also addresses AHJ concerns related to incompliance with NFPA 72 2022 Section 26.6.3.13 for the required 24 hour Secondary Power, which most often cannot be properly verified for IP reporting through the subscriber's network. Models **SLE-MAX2-FIRE**, **SLE-MAX2-CFB** and **SLE-MAX2-CFBPS** are fully compliant with NFPA 2013-2022 editions, capable of locally indicating and communicating signal failures to the central station within 6 hours of an outage of either path.

The following Super Dual testing guide is intended to assist with the AHJ inspection of StarLink MAX2 Fire "Super Dual" communicator installations. All required testing procedures are described, followed by the correct system responses. The testing procedure includes the emulation of the failure of each cellular channel (SIM1 and SIM2), allowing the AHJ to observe the system's ability to switch from one carrier to the other, upon failure of one path. This procedure is applicable to all MAX2 series communicators operating under a Super Dual™ service plan, purchased from NAPCO ComNet (www.NapcoComNet.com).

Normal LED Indications

With the communicator in standby mode, ensure the LEDs display as follows:

LED	Verify this Condition	Passed?
Yellow Operational LED **D4**	Blinks every 10 seconds (indicates normal operation).	☐
Green RF Signal LED **D3**	Blinks at least 2 times (indicates minimally acceptable signal strength).	☐
Red Trouble LED **D5**	OFF (indicates no trouble present).	☐
Trouble Relay Output on SLEULPS-R Trouble LED	OFF (indicates no trouble present).	☐

Signal Loss Test

This test emulates the failure of cellular carrier SIM1 and ensures the communicator indicates a supervisory trouble condition to the FACP and central station upon loss of path supervision within the required time and that the communicator correctly switches carriers, as required.

Press the PCB button to select SIM1 (red LED = Verizon) as the active carrier and remove both antennas.

Verify this Condition	Passed?
Ensure communicator goes into trouble within 200 seconds (i.e., 3 minutes and 20 seconds).	☐
Ensure Red Trouble LED **D5** blinks 5 times.	☐
Ensure Trouble Output **OUT1** relay trips OR if jumper **JP2** is removed to enable self-supervision, verify Telco 2 drops voltage. **Note:** The Telco 2 trouble indication may be delayed depending on the control panel configuration and model in use.	☐
Verify the communicator automatically switches carriers from SIM1 (red LED = Verizon) to SIM2 (blue LED = AT&T).	☐

Reinstall the left antenna, then reinstall the right antenna.

Verify this Condition	Passed?
Wait for the communicator to establish a connection to the SIM2 carrier.	☐
Verify the communicator sends an E788 Z101 (Trouble SIM1) to the central station.	☐

(continued)

Wait a minimum of 3 minutes, then press the PCB button to toggle back to SIM1 (red LED = Verizon).

Verify this Condition	Passed?
Verify the radio re-establishes a connection to the SIM2 carrier (blue LED = AT&T) and sends an R788 Z101 (Trouble Restore SIM1) to the central station.	☐
Ensure Red Trouble LED **D5** stops blinking.	☐
Ensure Trouble Output **OUT1** relay returns to normal OR if jumper **JP2** is removed to enable self-supervision, verify Telco 2 returns to normal voltage. **Note:** Clearing the Telco 2 trouble indication may be delayed depending on the control panel configuration and model in use.	☐

This test emulates the failure of cellular carrier SIM2 and ensures the communicator indicates a supervisory trouble condition to the FACP and central station upon loss of path supervision within the required time and that the communicator correctly switches carriers, as required.

Select SIM2 (blue LED = AT&T) as the active carrier and remove both antennas, then observe the following indications:

Verify this Condition	Passed?
Ensure communicator goes into trouble within 200 seconds (i.e., 3 minutes and 20 seconds).	☐
Ensure Red Trouble LED **D5** blinks 5 times.	☐
Ensure Trouble Output **OUT1** relay trips OR if jumper **JP2** is removed to enable self-supervision, verify Telco 2 drops voltage. **Note:** The Telco 2 trouble indication may be delayed depending on the control panel configuration and model in use.	☐
Verify the communicator automatically switches carriers from SIM2 (blue LED = AT&T) to SIM1 (red LED = Verizon)	☐

Reinstall the left antenna, then reinstall the right antenna.

Verify this Condition	Passed?
Wait for the communicator to establish a connection to the selected carrier.	☐
Verify the communicator sends an E788 Z102 (Trouble SIM2) to the central station.	☐

Wait a minimum of 3 minutes, then press the PCB button to toggle back to SIM2 (blue LED = AT&T).

Verify this Condition	Passed?
Verify the radio re-establishes a connection to the SIM2 carrier (blue LED = AT&T) and sends an R788 Z102 (Trouble Restore SIM2).	☐
Ensure Red Trouble LED **D5** stops blinking.	☐
Ensure Trouble Output **OUT1** relay returns to normal OR if jumper **JP2** is removed to enable self-supervision, verify Telco 2 returns to normal voltage. **Note:** Clearing the Telco 2 trouble indication may be delayed depending on the control panel configuration and model in use.	☐

(continued)

The model **SLE-MAX2-CFBPS** Commercial / Residential Fire / Burglary communicator (in red metal housing) is equipped with an **SLE-ULPS-R** power supply and 16.5V / 20VA transformer mounted inside housing.

With this **SLE-MAX2-CFBPS**, perform the following tests:

AC Failure Test

Remove radio AC power and observe the following **SLEULPS-R** power supply indications:

LED on the SLEULPS-R	Verify this Condition	Passed?
Yellow Trouble LED	Blinks once.	☐
Trouble Relay Output	Activates after 2 hours; check for proper trouble annunciation at FACP.	☐

Verify this Condition	Passed?
If jumper **JP2** is removed to enable self-supervision, verify Telco 2 returns to normal voltage. **Note:** Clearing the Telco 2 trouble indication may be delayed depending on the control panel configuration and model in use.	☐

Restore radio AC power:

LED on the SLEULPS-R	Verify this Condition	Passed?
Yellow Trouble LED	Turns off.	☐
Trouble Relay Output	Restores; check for proper trouble restoral at FACP.	☐

Verify this Condition	Passed?
If jumper **JP2** is removed to enable self-supervision, verify Telco 2 drops voltage. **Note:** Clearing the Telco 2 trouble indication may be delayed depending on the control panel configuration and model in use.	☐

No Battery / Low Battery Test

Disconnect the radio battery and observe the following **SLEULPS-R** power supply indications:

LED on the SLEULPS-R	Verify this Condition	Passed?
Yellow Trouble LED	Blinks twice.	☐
Trouble Relay Output	Activates within 200 seconds; check for proper trouble annunciation at FACP	☐

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StarLink™ SLE-MAX2-CFBPS
Dual Path Fire Communicator, IP with Cell Backup
NFPA 2013 - 2022 Editions
AHJ Inspection Guide

WI2261 6/24

The NAPCO **SLE-MAX2-CFBPS** Series Commercial Fire communicator, fully compliant with NFPA 2013-2022 editions, is approved as a Dual Path fire alarm communicator. The capability of indicating and communicating signal failures to the central station within 6 hours of an outage allow this communicator to replace two existing telephone lines. **Note:** The StarLink **SLE-MAX2-CFBPS** Series communicator may also be configured as a Sole Path Fire communicator, fully compliant with the NFPA 2013-2022 editions.

The following testing guide is intended to assist with the AHJ inspection of this StarLink Fire communicator installation. All required testing procedures are described, followed by the correct system responses. Ensure that in cases where a communicator trouble output is connected to an input on the FACP, the fire control panel properly annunciates the trouble condition.

Normal LED Indications

With the StarLink communicator in standby mode, ensure the LEDs display as follows:

LED	Verify this Condition	Passed?
Yellow Operational LED **DS15**	1 Slow Blink (indicates normal operation).	☐
Yellow Operational LED **D4**	Blinks every 10 seconds (indicates normal operation).	☐
Green IP Network LED **DS14**	1 Blink (Static IP) or 2 Blinks (DHCP).	☐
Green RF Signal LED **D3**	Blinks at least 2 times (indicates minimally acceptable signal strength).	☐
Red IP Trouble LED **DS16**	OFF (indicates no trouble present).	☐
Red Trouble LED **D5**	OFF (indicates no trouble present).	☐
Trouble Relay Output on SLEULPS-R Trouble LED	OFF (indicates no trouble present).	☐

AC Failure Test

Remove radio AC power and observe the following **SLEULPS-R** power supply indications:

LED on SLEULPS-R	Verify this Condition	Passed?
Yellow Trouble LED	Blinks once.	☐
Trouble Relay Output	Activates after 2 hours; check for proper trouble annunciation at FACP.	☐

Restore communicator AC power:

Yellow Trouble LED	Turns off.	☐
Trouble Relay Output	Restores; check for proper trouble restoral at FACP.	☐

No Battery / Low Battery Test

Disconnect the radio battery and observe the following **SLEULPS-R** power supply indications:

LED on SLEULPS-R	Verify this Condition	Passed?
Yellow Trouble LED	Blinks twice.	☐
Trouble Relay Output	Activates within 200 seconds; check for proper trouble annunciation at FACP	☐

(continued)

Reconnect the communicator battery:

Yellow Trouble LED	Turns off.	☐
Trouble Relay Output	Restores; check for proper trouble restoral at FACP.	☐

Signal Loss Test

This test ensures that the StarLink communicator will indicate a supervisory trouble condition to the FACP and central station upon loss of path supervision within the required time.

Remove the primary (left) antenna and observe the following indications:

LED	Verify this Condition	Passed?
Red Trouble LED **D5**	Blinks 5 times.	☐
Trouble Relay Output on SLEULPS-R Trouble LED	Blinks 4 times.	☐
	Supervisory signal **E788 (zone 1)** will be received by the central station within 6 hours of the antenna being removed.	☐

Reconnect the antenna:

Red Trouble LED **D5**	Turns off.	☐
Trouble Relay Output on SLEULPS-R Trouble LED	Turns off.	☐
	Supervisory restore signal **R788 (zone 1)** will be received by the central station within 200 seconds of the antenna being reconnected.	☐

Note: In cases where the StarLink communicator may be located in close proximity to the cell tower, there is a possibility that the communicator may operate properly, even with the antenna removed.

IP Signal Loss Test

This test ensures that the StarLink communicator will indicate a supervisory trouble condition to the FACP and central station upon loss of signal within the required time period.

Remove the Ethernet cable and observe the following indications:

LED	Verify this Condition	Passed?
Red Trouble LED **DS16**	Blinks 1 time every 4 seconds.	☐
Yellow Trouble LED **DS15**	Remains on solid.	☐
Green IP Network LED **DS14**	Turns off.	☐
Trouble Relay Output on SLEULPS-R Trouble LED	Blinks 4 times.	☐
	Supervisory signal **E788 (zone 2)** will be received by the central station within 200 seconds of the Ethernet cable being removed.	☐

(continued)

Reconnect the Ethernet cable:

Red Trouble LED **DS16**	Turns off.	☐
Yellow Trouble LED **DS15**	Slow blink.	☐
Trouble Relay Output on SLEULPS-R Trouble LED	Turns off.	☐
Green IP Network LED **DS14**	1 Blink (Static IP) or 2 Blinks (DHCP)	☐
	Supervisory restore signal **R788 (zone 2)** will be received by the central station within 200 seconds of the Ethernet cable being reconnected.	☐

IP Cable and Antenna Signal Loss Test

Remove both the Ethernet cable and antenna, then observe the following indications:

LED	Verify this Condition	Passed?
Red Trouble LED **DS16**	Blinks 1 time every 4 seconds.	☐
Yellow Trouble LED **DS15** on SLEULPS-R	Remains on solid.	☐
Green IP Network LED **DS14**	Turns off.	☐
Red Trouble LED **D5**	Blinks 5 times.	☐
Trouble Relay Output on SLEULPS-R Trouble LED	Blinks 4 times.	☐
	Supervisory signal **E356** or **YC** will be received by the central station within 6 hours of the Ethernet cable and antenna being removed.	☐

Reconnect both the Ethernet cable and antenna:

Red Trouble LED **DS16**	Turns off.	☐
Yellow Trouble LED **DS15**	Slow blink.	☐
Trouble Relay Output on SLEULPS-R Trouble LED	Turns off.	☐
Green IP Network LED **DS14**	1 Blink (Static IP) or 2 Blinks (DHCP)	☐
Red Trouble LED **D5**	Turns off.	☐
	Supervisory signal **R356** or **YK** will be received by the central station within 6 hours of the Ethernet cable antenna being reconnected.	☐

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StarLink™ SLE-MAX2-FIRE & SLE-MAX2-CFB Dual Path Fire Communicators, IP with Cell Backup NFPA 2013-2022 Editions AHJ Inspection Guide

WI2263 6/24

The NAPCO **SLE-MAX2-FIRE** and **SLE-MAX2-CFB** Series Dual Path Commercial Fire communicators, fully compliant with NFPA 2013-2022 editions, are approved as Dual Path fire alarm communicators. The capability of indicating and communicating signal failures to the central station within 6 hours of an outage allows each unit to replace two existing telephone lines. **Note:** Each StarLink communicator may also be configured as a Sole Path Fire communicator, fully compliant with the NFPA 2013-2022 editions.

The following testing guide is intended to assist with the AHJ inspection of StarLink Fire communicator installations. All required testing procedures are described, followed by the correct system responses. Ensure that in cases where a StarLink communicator trouble output is connected to an input on the FACP, the fire control panel properly annunciates the trouble condition.

Normal LED Indications

With the StarLink communicator unit in standby mode, ensure the LEDs display as follows:

LED	Verify this Condition	Passed?
Yellow Operational LED **DS15**	1 Slow Blink (indicates normal operation).	☐
Yellow Operational LED **D4**	Blinks every 10 seconds (indicates normal operation).	☐
Green IP Network LED **DS14**	1 Blink (Static IP) or 2 Blinks (DHCP).	☐
Green RF Signal LED **D3**	Blinks at least 2 times (indicates minimally acceptable signal strength).	☐
Red IP Trouble LED **DS16**	OFF (indicates no trouble present).	☐
Red Trouble LED **D5**	OFF (indicates no trouble present).	☐

AC Failure Test
No Battery / Low Battery Test

The StarLink communicator models are powered directly from the FACP power supply; communicator AC Failure and Battery Failure tests are not required.

Signal Loss Test

This test ensures that the StarLink communicator will indicate a supervisory trouble condition to the FACP and central station upon loss of path supervision within the required time.

Remove the primary (left) antenna and observe the following indications:

LED	Verify this Condition	Passed?
Red Trouble LED **D5**	Blinks 5 times.	☐
Trouble Relay Output on PGM1 Trouble Output	Activates within 6 hours; check for proper trouble annunciation at FACP	☐
	Supervisory signal **E788 (zone 1)** will be received by the central station within 6 hours of the antenna being removed.	☐

(continued)

Reconnect the antenna:

Red Trouble LED **D5**	Turns off.	☐
Trouble Relay Output on PGM1 Trouble Output	Restores; check for proper trouble restoral at FACP.	☐
	Supervisory restore signal **R788 (zone 1)** will be received by the central station within 6 hours of the antenna being reconnected.	☐

Note: In cases where the StarLink communicator may be located in close proximity to the cell tower, there is a possibility that the StarLink communicator may operate properly, even with the antenna removed.

IP Signal Loss Test

This test ensures that the StarLink communicator will indicate a supervisory trouble condition to the FACP and central station upon loss of signal within the required time period.

Remove the Ethernet cable and observe the following indications:

LED	Verify this Condition	Passed?
Red Trouble LED **DS16**	Blinks 1 time every 4 seconds.	☐
Yellow Trouble LED **DS15**	Remains on solid.	☐
Green IP Network LED **DS14**	Turns off.	☐
Trouble Relay Output on PGM1	Activates within 6 hours; check for proper trouble annunciation at FACP	☐
	Supervisory signal **E788 (zone 2)** will be received by the central station within 200 seconds of the Ethernet cable being removed.	☐

Reconnect the Ethernet cable:

Red Trouble LED **DS16**	Turns off.	☐
Yellow Trouble LED **DS15**	Slow blink.	☐
Trouble Relay Output on PGM1	Restores; check for proper trouble restoral at FACP.	☐
Green IP Network LED **DS14**	1 Blink (Static IP) or 2 Blinks (DHCP)	☐
	Supervisory restore signal **R788 (zone 2)** will be received by the central station within 200 seconds of the Ethernet cable being reconnected.	☐

(continued)

IP Cable and Antenna Signal Loss Test

Remove both the Ethernet cable and antenna, then observe the following indications:

LED	Verify this Condition	Passed?
Red Trouble LED **DS16**	Blinks 1 time every 4 seconds.	☐
Yellow Trouble LED **DS15** on SLEULPS-R	Remains on solid.	☐
Green IP Network LED **DS14**	Turns off.	☐
Red Trouble LED **D5**	Blinks 5 times.	☐
Trouble Relay Output on PGM1	Activates within 6 hours; check for proper trouble annunciation at FACP	☐
	Supervisory signal **E356** or **YC** will be received by the central station within 200 seconds of the Ethernet cable being removed and 6 hours of the antenna being removed.	☐

Reconnect both the Ethernet cable and antenna:

Red Trouble LED **DS16**	Turns off.	☐
Yellow Trouble LED **DS15**	Slow blink.	☐
Trouble Relay Output on PGM1 Trouble Output	Restores; check for proper trouble restoral at FACP.	☐
Green IP Network LED **DS14**	1 Blink (Static IP) or 2 Blinks (DHCP)	☐
Red Trouble LED **D5**	Turns off.	☐
	Supervisory signal **R356** or **YK** will be received by the central station within 6 hours of the Ethernet cable antenna being reconnected.	☐

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StarLink™ SLE-MAX2-FIRE & SLE-MAX2-CFB Sole Path Fire Communicators NFPA 2013-2022 Editions AHJ Inspection Guide

WI2178 6/24

The NAPCO **SLE-MAX2-FIRE** and **SLE-MAX2-CFB** Series Commercial Fire radio communicators (includes models listed above), fully compliant with NFPA 2013-2022 editions, are approved as fire alarm communicators. The capability of indicating and communicating signal failures to the central station within 60 minutes of an outage allows these communicators to replace existing telephone lines.

The following testing guide is intended to assist with the AHJ inspection of StarLink Fire communicator installations. All required testing procedures are described, followed by the correct system responses. Ensure that in cases where a communicator trouble output is connected to an input on the FACP, the fire control panel properly annunciates the trouble condition.

Normal LED Indications

With the StarLink communicator in standby mode, ensure the LEDs display as follows:

LED	Verify this Condition	Passed?
Yellow Operational LED **D4**	Blinks every 10 seconds (indicates normal operation).	☐
Green RF Signal LED **D3**	Blinks at least 2 times (indicates minimally acceptable signal strength).	☐
Red Trouble LED **D5**	OFF (indicates no trouble present).	☐

Yellow Trouble LED on the SLEULPS-R	OFF (indicates no trouble present).	☐

AC Failure Test
No Battery / Low Battery Test

Each StarLink communicator model is powered directly from the FACP power supply; radio AC Failure and Battery Failure tests are not required.

Signal Loss Test

This test ensures that the StarLink communicator will indicate a supervisory trouble condition to the FACP and central station upon loss of path supervision within the required time period.

Remove the primary (left) antenna and observe the following indications:

LED	Verify this Condition	Passed?
Red Trouble LED **D5**	Blinks 5 times.	☐
Yellow Trouble LED on SLEULPS-R	Blinks 4 times.	☐
Trouble Relay Output on SLEULPS-R	Activates within 60 minutes; check for proper trouble annunciation at FACP	☐
	Supervisory signal **E356** or **YC** will be received by the central station within 60 minutes of the antenna being removed.	☐

(continued)

Reconnect the antenna:

Red Trouble LED **D5**	Turns off.	☐
Yellow Trouble LED on SLEULPS-R	Turns off.	☐
Trouble Relay Output on SLEULPS-R	Restores; check for proper trouble restoral at FACP.	☐
	Supervisory restore signal **R356** or **YK** will be received by the central station within 60 minutes of the antenna being reconnected.	☐

Note: In cases where the radio may be located in close proximity to the cell tower, there is a possibility that the StarLink communicator may operate properly, even with the antenna removed.

333 Bayview Avenue, Amityville, New York 11701
For Sales and Repairs, (800) 645-9445
For Technical Service, (800) 645-9440 or visit us at
http://tech.napcosecurity.com/
(Note: Technical Service is for security professionals only)
Publicly traded on NASDAQ Symbol: NSSC

StarLink™ SLE-MAX2-CFBPS
Sole Path Fire Communicator
NFPA 2013-2022 Editions
AHJ Inspection Guide

WI2176 6/24

The NAPCO StarLink **SLE-MAX2-CFBPS** Series Commercial Fire communicator, fully compliant with NFPA 2013-2022 editions, is approved as a fire alarm communicator. The capability of indicating and communicating signal failures to the central station within 60 minutes of an outage allows the communicator to replace existing telephone lines.

The following testing guide is intended to assist with the AHJ inspection of Fire communicator installations. All required testing procedures are described, followed by the correct system responses. Ensure that in cases where a communicator trouble output is connected to an input on the FACP, the fire control panel properly annunciates the trouble condition.

Normal LED Indications

With the StarLink communicator in standby mode, ensure the LEDs display as follows:

LED	Verify this Condition	Passed?
Yellow Operational LED **D4**	Blinks every 10 seconds (indicates normal operation).	☐
Green RF Signal LED **D3**	Blinks at least 2 times (indicates minimally acceptable signal strength).	☐
Red Trouble LED **D5**	OFF (indicates no trouble present).	☐

Yellow Trouble LED on the SLEULPS-R	OFF (indicates no trouble present).	☐

AC Failure Test

Remove radio AC power and observe the following **SLEULPS-R** power supply indications:

LED on the SLEULPS-R	Verify this Condition	Passed?
Yellow Trouble LED	Blinks once.	☐
Trouble Relay Output	Activates after 2 hours; check for proper trouble annunciation at FACP.	☐

Restore radio AC power:

Yellow Trouble LED	Turns off.	☐
Trouble Relay Output	Restores; check for proper trouble restoral at FACP.	☐

No Battery / Low Battery Test

Disconnect the radio battery and observe the following **SLEULPS-R** power supply indications:

LED on the SLEULPS-R	Verify this Condition	Passed?
Yellow Trouble LED	Blinks twice.	☐
Trouble Relay Output	Activates within 200 seconds; check for proper trouble annunciation at FACP	☐

Reconnect the radio battery:

Yellow Trouble LED	Turns off.	☐
Trouble Relay Output	Restores; check for proper trouble restoral at FACP.	☐

(continued)

Signal Loss Test

This test ensures that the StarLink communicator will indicate a supervisory trouble condition to the FACP and central station upon loss of path supervision within the required time period.

Remove the primary (left) antenna and observe the following indications:

LED	Verify this Condition	Passed?
Red Trouble LED **D5**	Blinks 5 times.	☐
Yellow Trouble LED on SLEULPS-R	Blinks 4 times.	☐
Trouble Relay Output on SLEULPS-R	Activates within 60 minutes; check for proper trouble annunciation at FACP	☐
	Supervisory signal **E356** or **YC** will be received by the central station within 60 minutes of the antenna being removed.	☐

Reconnect the antenna:

Red Trouble LED **D5**	Turns off.	☐
Yellow Trouble LED on SLEULPS-R	Turns off.	☐
Trouble Relay Output on SLEULPS-R	Restores; check for proper trouble restoral at FACP.	☐
	Supervisory restore signal **R356** or **YK** will be received by the central station within 60 minutes of the antenna being reconnected.	☐

Note: In cases where the radio may be located in close proximity to the cell tower, there is a possibility that the communicator may operate properly, even with the antenna removed.

NAPCO®
StarLink omniX Universal Extended Antenna
333 Bayview Avenue, Amityville, New York 11701
For Sales and Repairs, (800) 645-9445
For Technical Service, (800) 645-9440 or visit us at
http://tech.napcosecurity.com/
(Note: Technical Service is for security professionals only)
Publicly traded on NASDAQ Symbol: NSSC

StarLink Remote Antenna Kits
For StarLink SLE Fire Series UL Listed Communicators
Installation Instructions

WI2230ELF 11/20

The **StarLink *Remote Antenna Kits*** are designed to increase LTE cellular transmission signal strength by providing a weatherproof exterior antenna option for the StarLink SLE Fire Series UL Listed communicators. The kits include a dual wide band, 4-9dBi omnidirectional indoor / outdoor antenna that provides improved signal performance in weak cellular signal areas. The antenna is foam filled for vibration stabilization and long lasting performance in extreme conditions. Each antenna includes an L-bracket with stainless steel nuts and U bolts for pole mounting (up to 2" diameter poles). Also included in the kit is the **SLE-ANTEXT-ISO** non-conductive mounting plate that is used in commercial fire applications to ground-fault isolate the antenna (see reverse). The kits include stainless steel coated cable clamps and low loss, interconnecting coaxial cables of differing length that connect the antenna to the standard SMA female threaded connector included with all StarLink communicator models.

Technical Specifications

Radiation Pattern.....Omni-Directional
Gain.....4 - 9dBi
Bandwidth.....VSWR: <1.5: 1 = 695 - 3000 MHZ in all 3G & 4G Bands
.....VSWR: <2.0: 1 = 695 - 3000 MHZ
Impedance.....50 Ω
Max. Input Power.....50 watts
Installation.....Included L-bracket with U-bolts for up to 2" diameter pole; SLE-ANTEXT-ISO ground fault isolation plate; stainless steel coated cable clamps, stainless steel #10 screws and washers
Dimensions.....8⅞" (225 mm) Length x 2⅜" (60 mm) od
Exterior Finish.....White, UV stable
Weight.....10 oz.
RF Connector.....Type N Female
PIM.....-155dBc
Polarization.....Vertical
Wind Rating.....> 110 MPH
Warranty.....36 months
Environments.....Indoor / outdoor use

SLE-ANT
(Antenna only, white UV-stable finish)

Included Hardware


Stainless Steel Coated Cable Clamps


1" x #10 Stainless Steel Screws
Phillips Pan Head, Type A


#10 Stainless Steel Washers


(1) SMA Female to TNC Male Adapter
For use with competitive communicators


(4) Stainless Steel ½" x #8 Screws
Phillips Pan Head, Hi-Low


(4) Stainless Steel #8 Washers

Features

- Compact design
- UV stable polyurethane finish
- Vibration stabilized foam filled
- Excellent 700 MHZ LTE performance
- Universal applications

Ordering Information

- **SLE-ANT** - Antenna only, white UV-stable finish
- **SLE-ANTEXT30** – 30' Remote Antenna Kit, Includes **SLE-ANT** Antenna, stainless steel coated cable clamps, stainless steel #10 screws and washers, 30' LMR 300 Coax Type N male to SMA male terminated cable. Also includes one (1) SMA female to TNC male adapter for use with competitive communicators.
- **SLE-ANTEXT50** - Same as above*, but includes 50' LMR 300 Coax Type N male to SMA male terminated cable
- **SLE-ANTEXT75** - Same as above*, but includes 75' LMR 400 Coax Type N male to SMA male terminated cable
- **SLE-ANTEXT100** - Same as above*, but includes 100' LMR 400 Coax Type N male to SMA male terminated cable
- **SLE-ANTEXT04** - Same as above*, but includes 4' LMR 300 Coax Type N male to SMA male terminated cable. Ideal for installations that may require a few extras dBs of gain but running the external cable may not be practical.

*All kits include one (1) SMA female to TNC male adapter

Installing the StarLink Remote Antenna

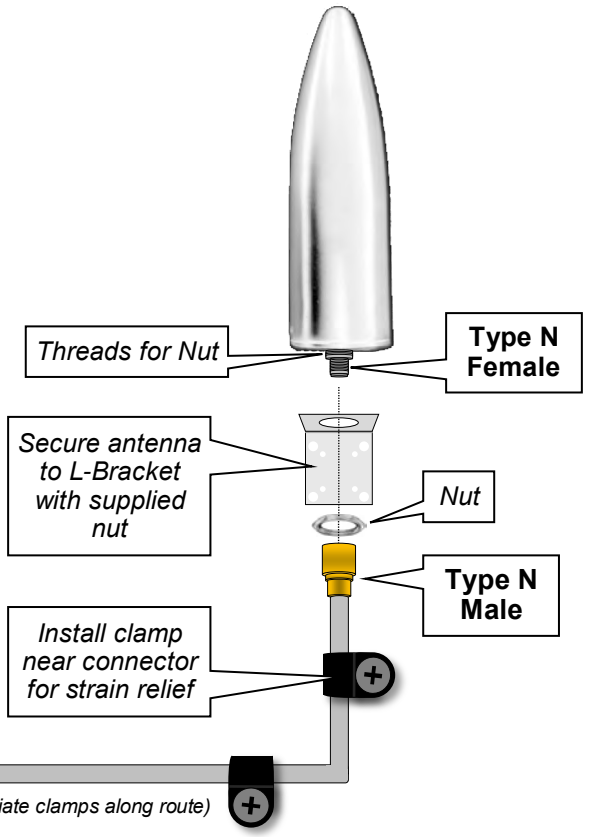
Attach the antenna L-bracket to an interior or exterior wall of the building. If necessary, the bracket may be mounted to a pole up to 2" in diameter. If installing on a commercial fire communicator, the included **SLE-ANTEXT-ISO** ground fault isolation plate should be used (see below).

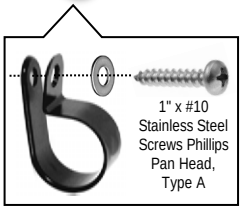
To achieve optimum performance, the antenna must be placed at the highest possible elevation.

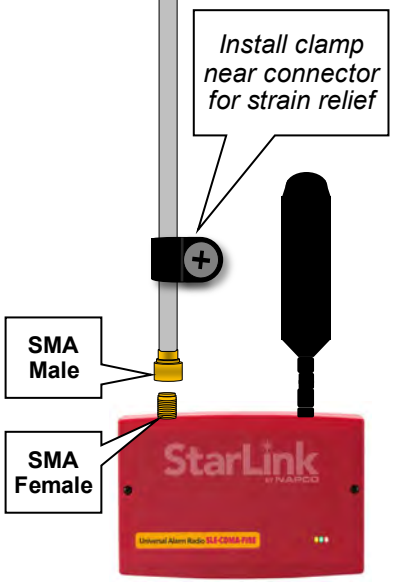
Run the coaxial cable between the communicator and the antenna, securing it with the provided stainless steel coated clamps and stainless steel screws and washers. *It is important that a cable clamp be placed near the antenna connector to provide strain relief for the antenna connector, as shown below*.

Connect the coaxial cable to the left antenna connector of the StarLink LTE communicator, as shown below. The right hand antenna can be left in place.

IMPORTANT: DO **NOT** ALTER OR ADD COAXIAL CABLE! DO **NOT** PLACE ANTENNA WITHIN FOUR (4) FEET OF OTHER LARGE METAL OBJECTS.







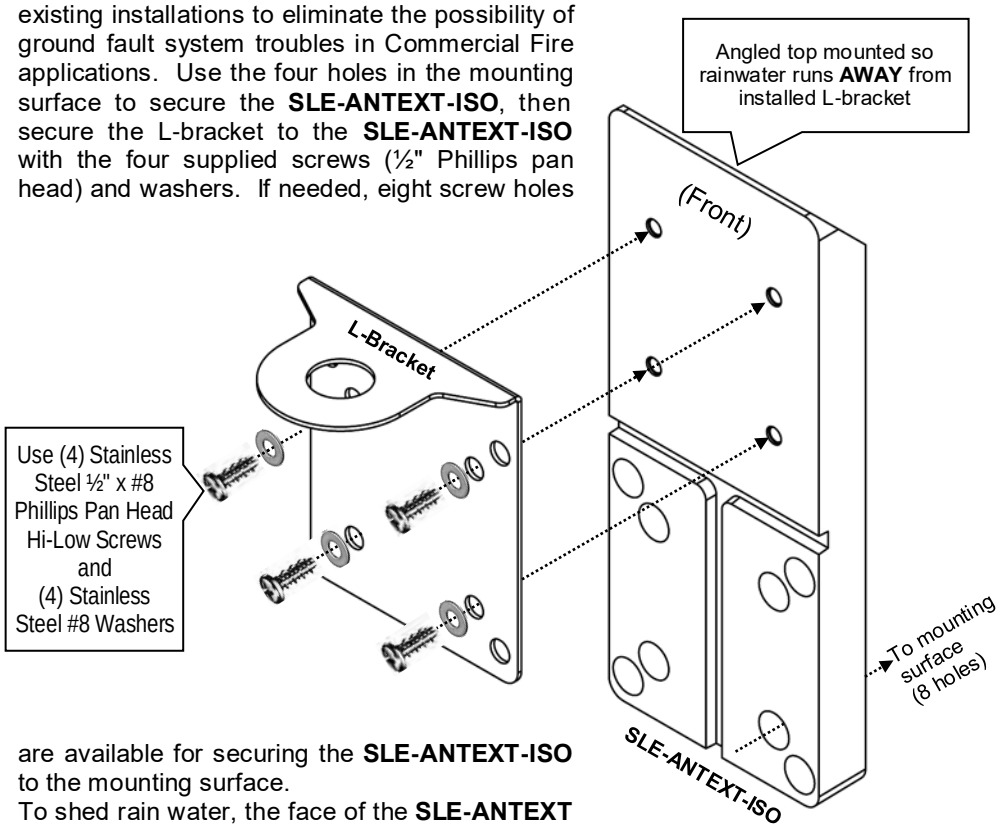
For use on LTE Communicators

Connect extended antenna to the left (SMA female) connector (the right LTE antenna supplied with the communicator can be left in place).

SLE-ANTEXT-ISO *Ground Fault Isolation Plate & L-Bracket*

The **SLE-ANTEXT-ISO** can be used for new or existing installations to eliminate the possibility of ground fault system troubles in Commercial Fire applications. Use the four holes in the mounting surface to secure the **SLE-ANTEXT-ISO**, then secure the L-bracket to the **SLE-ANTEXT-ISO** with the four supplied screws (½" Phillips pan head) and washers. If needed, eight screw holes are available for securing the **SLE-ANTEXT-ISO** to the mounting surface.

To shed rain water, the face of the **SLE-ANTEXT-ISO** includes grooves, and its angled top should always be mounted so that rainwater runs AWAY from the installed L-bracket, as shown.



FDNY

BUREAU OF FIRE PREVENTION
9 Metro Tech Center, 3rd Floor
Brooklyn ,NY,11201

To: Frank Lemma

From : New York City Fire Department

Date Jan 23, 2024

Record ID: 2023-TMCOAP-010503-CERT

Premises Address: Citywide

BIN

Application Type: Certificate of Approval

Result: Certificate of Approval

Expiates on January 23, 2027

By order of Fire Commissioner, and pursuant to Section FC 112 of the New York City New Fire Code, the following equipment or system is accepted for use provided the conditions as outlined below are in full compliance.

Manufacturer: Napco Security Technologies Inc.

Trade Name: Star Link

Product: SLE Commercial Fire Radios

Model Number(s): (Dual Path Radios) - SLE-MAXAI-FIRE, SLE-MAXAI-CFBPS, SLE-MAXAI-CFB: SLE-MAXVI-FIRE, SLE-MAXVI-CFBPS, SLE-MAXVI-CFB.
(Dual Path, Dual Sim Radios) - SLE-MAX2-FIRE, SLE-MAX2-CFBPS, SLE-MAX2-CFB.
(Fire Alarm Equipment Accessory) - SLE-FIRE-VR.

Pertinent Code Section(s): Section FC 901 of the New York City Fire Code

Prescribed Tests: UL 864 10th Edition, NFPA 72

Laboratories: Underwriters Laboratories, Inc. (UL)

Report(s): UL Certification Certificate Number S2576 Report Reference S2576 -20150410 Date 2023-March-24
ETL Certification Number 104519361NYM-001 dated Oct. 3, 2023.

Description:
The StarLink™ MAX2 Series Sole/Dual-Path Dual SIM

Commercial / Residential Fire alarm capture IP communicators are fully supervised, wireless digital two way subscriber units. The SLE-MAX2-CFB and SLEMAX2-CFBPS communicators are equipped with two network carrier SIM cards (for Verizon and AT&T) and are configured to automatically use the carrier with the strongest signal. Both models utilize CAT-M1 technology and support both Sole Path and Dual Path communication. Sole Path communication is cellular only and Dual Path communication is cellular and IP, which requires connection to the local network using the on-board Ethernet jack or via Wi-Fi using the optional UL 864 Certified SLE-WIFI-MODULE (Not for Burglary Use). The communication mode (Sole Path or Dual Path) requires selection of the appropriate service plan at the point of communicator activation. All models are compatible with most 12/24VDC alarm control panels (always adhere to the documentation provided by the control panel manufacturer). These communicators are for use as the primary means of communication with the central station and does not have backup mode capability. No POTS (Telco Line) connection permitted (this communicator model only emulates a telephone line to the control panel and is not equipped with hardware that can monitor a live POTS telephone line). These Communicators can also be utilized as Sole Path Cell Communicators. To accommodate the two network SIM cards, several feature settings are provided in the NAPCO NOC Radio Carrier screen (www.NapcoNOC.com). In addition, LEDs and a manual pushbutton, if so equipped, are provided on the radio PCB (see page 4 and 10-11 for complete details).

In addition to the models listed above, the following sub-assemblies are available:

SLE-ULPS-R - Power Supply. Required for installations where the control panel cannot provide the Auxiliary power required to operate the StarLink communicator. Uses a standard 4AH / 12V minimum (7AH maximum, required with optional Wi-Fi Module) rechargeable battery to provide communicator standby power. Requires connection to either the model NAPCO TRF12/T123 (16.5V / 20VA) external plug-in transformer or the chassis mounted 16.5VAC / 20VA transformer affixed inside the housing (see wiring diagrams further in this manual). Note: For models without the SLEULPS-R, connect the communicator terminals 1 and 2 to the control panel Aux Power terminals (observing polarity).

SLE-WIFI-MODULE - Allows your NAPCO StarLink™ device to connect to the Internet by means of a

wireless (Wi-Fi) link, eliminating a wired Ethernet.
cable connection. Note: 7AH battery required
when using the SLE-WIFI-MODULE. For more information,
see WI2191. Not UL Certified for Commercial
or Residential Burglary.
SLE-FIRE-VR - Control Panel Voltage Drop Kit (see
WI2580).
SLE-DLCBL - Download Cable, 6 feet
SLE-ANTEXT30 – Antenna kit* with 30 feet of LMR 300
cable.
SLE-ANTEXT50 - Antenna kit* with 50 feet of LMR 300
cable.
SLE-ANTEXT75 - Antenna kit* with 75 feet of LMR 400
cable.
SLE-ANTEXT100 - Antenna kit* with 100 feet of LMR
400 cable.
SLE-ANTEXT04 - Antenna kit * with 4 feet of LMR 300
cable. Ideal for installations that may require a few
extras dBs of gain but running the external cable may
not be practical.

Conditions of Approval:

1. All uses, configurations, arrangements and functions, applications and installations shall comply with the provisions of New York City Construction Codes, specifically Building Code Chapter 9 & 1RCNY §3616-04. Further, the installation shall be in accordance with applicable provisions of New York City Fire Code, New York City Electrical Code, manufacturer's installation requirements, and UL Standard 864.

2. When used with a central office control communicator or a transmitter, the installation and operation of the equipment and devices shall comply with 3RCNY §901-01. It shall have the capability of transmitting separate and distinct signals to indicate manual pull station alarm, automatic detection alarm, sprinkler waterflow alarm, supervisory signal indications, and trouble indications.

3. The installation of Fire Alarm Control Unit must provide for fail-safe operation. This feature must assure that control of doors, locks, ventilation fans, and elevator recall will not be rendered inoperable in the event of a fire or power failure.

4. When the communicator is in Primary mode (both Internet and Cellular communications) both primary and secondary channels of communication shall be required and shall meet the conditions of 4.1 – 4.7. Network communication shall be used as primary channel of communication with central station and cellular communication shall be used as the secondary channel of communication.
4.1. Each communication channel shall be monitored for integrity at intervals not exceeding 24 hours.
4.2. Failure any channel of communication shall be annunciated at the protected premises within 5 minutes of failure.
4.3. When any channel of communication has failed, a trouble signal shall be sent to central station within 5 minutes of failure by the remained active channel.
4.4. Reliability of the signal shall be achieved by any of the following:
4.4.1. Signal repetition — multiple transmissions repeating the same signal.
4.4.2. Parity check — a mathematically check sum algorithm of a digital message that verifies correlation between transmitted and received message.
4.4.3. An equivalent means that provides a certainty of 99.99 percent that the received message is identical to the transmitted message.
4.5. The maximum duration between the initiation of an alarm signal at the protected premises, transmission of the signal, and subsequent display and recording of the alarm signal at the central station shall not exceed 90 seconds.
4.6. A spare Central Station Receiver shall be provided at the central station and shall be able to be switched into the place of a failed

unit within 30 seconds after detection of failure.
4.7. All applicable requirements of Federal Communications Commission (FCC) shall be complied with.

5. When the installation of remote antenna is required the following shall be completed:
5.1. The antenna transmission line between the transmitter and the antenna shall be installed in rigid metal, intermediate metal conduit, or electrical metallic tubing in accordance with NFPA 70, National Electrical Code.
5.2. Interconnections between elements of transmitting equipment, including any antennas, shall be supervised either to cause an indication of failure at the protected premises or to transmit a trouble signal to the supervising station.

6. All wiring used for the building network communications shall be plenum rated cable with minimum temperature rating of 150 degree Celsius and shall be installed in a raceway per requirements of NYC 2011 Electrical Code, Article 760.

7. The connection of security/burglar devices and equipment to the fire alarm control unit is prohibited. A sign must be provided to indicate the same.

8. All installations are subject to inspection, test, and approval from Fire Alarm Inspection Unit (FAIU).

9. Any change in central station communication service provider shall be reported to FAIU and is subject to re-inspection, test, and approval.

10. Only enclosures painted red in color shall be used.

11. Underwriters Laboratories (UL) listing requirements and limitations shall be complied with.

12. Certificate of Approval number shall be plainly and permanently stamped or otherwise fixed upon each product by the applicant.

13. The Fire Department's conditions of approval shall be enumerated in the installation manuals and brochures that will be provided to all New York City buyers and users.

14. Fire Department Certificate of Approval does not constitute an endorsement or recommendation of your product by the Fire Department, but is a certification that your product is acceptable as of the date of issuance.

15. The Fire Department reserves the right to withdraw this approval at any time in the event there is a reasonable doubt that the product does not operate or perform as required by code, the conditions of this resolution or as represented in your application.

16. As the manufacturer of this product, you should be aware that any end user who fails to comply with the condition as outlined in the approval would be subject to enforcement action, which may include fines and imprisonment.

17. This Certificate of Approval does not grant the right to use any trademark associated with the New York City Fire Department (the letters FDNY, the FDNY Shield design, the FDNY Maltese Cross design, and the seal of the City of New York). The unauthorized use of trademarks in connection with the sale of commercial goods or services violates federal and state laws.

18. Products marked to indicate the Certificate of Approval number might refer to the "NYC Fire Department" or "NYC Fire Dept" (e.g., "NYC Fire Dept Certificate of Approval 2023-TMCOAP-010503-CERT).

Any change in company name or ownership, product name, design or model number of any product included on this certificate must be immediately reported to this Department in writing.

When responding to this Department regarding this subject matter, kindly refer to 2023-TMCOAP-010503-CERT and to Igor Chouchereba attention, 9 MetroTech Center #1S-65-K, phone (718) 999-1997.

Very truly yours,

Igor Chouchereba
Supervisor of Electrical Installation, II
Technology Management

By Order of,
Chief of Fire Prevention

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING & INVESTIGATIONS DIVISION
BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

LISTING No.:	7300-0992:0503
CATEGORY:	7300 - FIRE ALARM CONTROL UNIT ACCESSORIES/MISC. DEVICES
LISTEE:	Napco 333 Bayview Avene, Amityville, NY, 11701 Contact: Lemma, Frank 16318429400 Email: flemma@napcosecurity.com
DESIGN:	Models SLE-MAXVI-CFBPS, SLE-MAXVI-CFB, SLE-MAXVI-FIRE, SLE-MAXAI-CFBPS, SLE-MAXAI-CFB, SLE-MAXAI-FIRE, *SLE-MAX2-CFBPS, *SLE-MAX2-CFB and *SLE-MAX2-FIRE Dual Path Communicators. The communication mode requires selection of the appropriate service plan at the point of communicator activation. Model numbers may be followed by an alpha/numeric suffix for marketing purposes. Products are intended for commercial/residential fire applications. All models can function as a backup to existing telephone lines, or as a primary communicator when telephone lines are absent and when connected directly to a Listed control panel's Telco or DACT or output terminals. Intended for indoor and dry locations only. Refer to listee's data sheet for additional detailed product description and operational considerations.
RATING:	Models SLE-MAXVI-CFBPS, SLE-MAXAI-CFBPS, and *SLE-MAX2-CFBPS: 120 VAC Models SLE-MAXVI-FIRE, SLE-MAXVI-CFB, SLE-MAXAI-FIRE, SLE-MAXAI-CFB, *SLE-MAX2-CFB and *SLE-MAX2-FIRE: 10-24 VDC
INSTALLATION:	In accordance with listee's printed installation instructions, applicable codes and ordinances, and in a manner acceptable to the authority having jurisdiction.
MARKING:	Listee's name, model number, electrical rating, and UL label.
APPROVAL:	Listed as dual path communicators for use with separately listed compatible fire alarm control units. Refer to listee's Installation Instruction Manual for details.

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING & INVESTIGATIONS DIVISION
BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

NOTES:	Burglary and other non-fire functions were not examined.

04-17-24 MH

*Revised

This listing is based upon technical data submitted by the applicant. OSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other suitable information sources.

Date Issued: 04/18/2024

Listing Expires: 06/30/2024

Authorized By: **David Castillo**, Program Coordinator
Fire Engineering & Investigations Division

2024-03-27
Napco Security Technologies Inc
333 BAYVIEW AVE
AMITYVILLE, NY, 11701, US

Notice of Completion (NoC) and authorization to apply the Mark

Your reference:	PRFL093-00	
Our reference:	File S2576 Vol 18 Sec 1, Volume 18	Order: 15175301 Project: 4791197316
Project scope:	S2576 Vol 18 Sec 1: Dual Path/Dual Carrier/Dual Supervision with SIA Protocol Dial Capture; SLE-MAX2-FIRE, SLE-MAX2-CFB and SLE-MAX2-CFBPS	

We appreciate that you have a choice of certification providers and thank you for choosing UL Solutions**.**
We have completed the investigation under the above project and confirmed compliance of your product(s) with Mark requirements.

This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the Mark at the factory location(s) identified on the Authorization Page of UL Solutions File S2576 Vol 18 Sec 1, Volume 18. You are required to send a copy of this letter to all manufacturing locations authorized under UL Solutions File S2576 Vol 18 Sec 1, Volume 18.

The Follow-Up Services Procedure covering your product(s) will typically be provided by UL Solutions within 10 business days. Any information and documentation provided to you involving the Mark services are provided on behalf of or any authorized licensee. The UL Solutions certification directory is updated with active certifications shortly after projects are reviewed and completed. Please visit https://productiq.ulprospector.com/ to search for the certification.

Products that bear the Mark must be identical to those submitted to UL for evaluation and certification and must comply with the Follow-Up Services Procedure covering your product(s). Additional requirements related to the responsibilities of the Applicant and Manufacturer can be found under **Customer Requirements documents** at www.ul.com/fus.

A UL Solutions certification is a valuable marketing tool meaning your product or company has successfully met stringent requirements. We encourage you to use your Mark and certification in your marketing activities. We are happy to provide guidance on how best to promote your UL certification. Our Certification Achievement Kit demonstrates marketing and promotional concepts to help you best represent your UL certification.

UL Solutions is committed to providing you with an exceptional customer experience. You may receive an email from ULSurvey@feedback.ul.com inviting you to provide feedback. Your survey rankings and comments regarding the experience are important to us. We are always seeking ways to improve in any areas we can, and your feedback and comments are vital to this process.

If you have any questions, please contact me or any of our customer service representatives at www.ul.com/contact-us.

Example/Exhibit-ULID-000842 (DCS:00-OP-E0860) Issue #: 3.0

Sincerely,

Allen Weber
Staff Engineering Associate
UL Solutions
Allen.G.Weber@ul.com

Certificate of Compliance

Certificate Number:

S2576

Report Reference:

S2576-20150410

Issue Date:

2024-02-23

Issued to:

Napco Security Technologies Inc
333 BAYVIEW AVE
AMITYVILLE NY, 11701 United States

This certificate confirms that representative samples of:

CONTROL UNIT ACCESSORIES, SYSTEM; PROPRIETARY ALARM UNITS

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

UL 985, Household Fire Warning System Units
UL 1023, Household Burglar-Alarm System Units
UL 2610, Commercial Premises Security Alarm Units and Systems
UL 864, Control Units and Accessories for Fire Alarm Systems

Additional Information:
See UL Product iQ® at https://iq.ulprospector.com for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Fire Alarm and Security Equipment:

Communicators, Models SLE3/4G-CB, SLE3/4G-CB-TF, SLE3/4G-CFB, SLE3/4G-CFB-PS, SLE-CDMA, SLE-CDMA-8D, SLE-CDMA-FIRE, SLE-GSM-3/4G, SLE-GSM-8D-3/4G, SLE-GSM-FIRE, SLECDMA-CB, SLECDMA-CB-TF, SLECDMA-CFB, SLECDMA-CFB-PS. Model numbers may be followed by an alpha/numeric suffix for marketing purposes.

Dual Path Communicators, Models -
SLECDMAI-CFB-PS, SLE3/4GI-CFB-PS, SLECDMAI-CB-TF, SLE3/4GI-CB-TF
SLECDMAI-CFB, SLE3/4GI-CFB, SLECDMAI-CB, SLE3/4GI-CB
SLE-GSMI-3/4G, SLE-CDMAI, SLE-GSMI-FIRE, SLE-CDMAI-FIRE
Model numbers may be followed by an alpha/numeric suffix for marketing purposes.

Fire Alarm and Security Equipment

Communicators, Models SLE-LTEV-FIRE, SLE-LTEV-8D, SLE-LTEV, SLE-LTEV-CFB-PS, SLE-LTEV-CB-TF, SLE-LTEV-CFB, and SLE-LTEV-CB . Model numbers may be followed by an alpha/numeric suffix for marketing purposes.

Communicators, Models SLE-LTEA-FIRE, SLE-LTEA-8D, SLE-LTEA, SLE-LTEA-CFB-PS, SLE-LTEA-CB-TF, SLE-LTEA-CFB, and SLE-LTEA-CB. Model numbers may be followed by an alpha/numeric suffix for marketing purposes.

Dual Path Communicators, Models SLE-LTEVI-CFBPS, SLE-LTEVI-CFB, SLE-LTEVI-FIRE, SLE-MAXVI-CFBPS, SLE-MAXVI-CFB, SLE-MAXVI-FIRE. Model numbers may be followed by an alpha/numeric suffix for marketing purposes.

Dual Path Communicators, Models SLE-LTEAI-CFBPS, SLE-LTEAI-CFB, SLE-LTEAI-FIRE, SLE-MAXAI-CFBPS, SLE-MAXAI-CFB, SLE-MAXAI-FIRE. Model numbers may be followed by an alpha/numeric suffix for marketing purposes.

Dual Path Communicators, Models SLE-FNI-CFB-PS, SLE-FNI-CFB, SLE-FNI-FIRE. Model numbers may be followed by an alpha/numeric suffix for marketing purposes.

Fire Alarm and Security Subassemblies:

Model SLE-ULPS-R power supply/charger.
Model SLE-WiFi-Module

Fire Alarm Subassemblies:

Models 9SLECDMAIPSLD, 9SLEGSMDPPSLD, 9LTE24PSLD, 9SLELTEVIPSLD, 9LTEA24PSLD, 9SLEDPLTEA2PSLD and 9SLELTECMQPSLD.

Model SLE-FIRE-VR – In-line Diode.

Fire Alarm and Security Equipment:

Dual Path Communicators, Models SLE-LTEV-CB-C, SLE-LTEV-CBTF-C, SLE-LTEV-C and SLE-LTEV-Z. Models SLE-MAXV-CBTF-C, SLE-MAXV-C, SLE-MAXV-Z,SLE-MAXA-CBTF-C, SLE-MAXA-C and SLE-MAXA-Z, SLE-MAXV, SLE-MAXV-CB-TF, SLE-MAXV-CB, SLE-MAXA, SLE-MAXA-CB-TF, SLE-MAXA-CB. Model numbers may be followed by an alpha/numeric suffix for marketing purposes.

SLE-ZWave Mod

EOL10K end of line resistor.

Fire Alarm and Security Equipment:

Sole / Dual Path Communicators, Models SLE-MAX2-CFBPS, SLE-MAX2-CFB, SLE-MAX2-FIRE. Model numbers may be followed by an alpha/numeric suffix for marketing purposes.

Fire Alarm Subassemblies:

Model 9SLEDPRDMX2PSLD

Certificate of Compliance

Certificate Number:

UL-US-L2576-55170-01405102-1

Report Reference:

S2576-20150410

Issue Date:

2024-02-23

Issued to:

Napco Security Technologies Inc
333 BAYVIEW AVE AMITYVILLE, NY 11701
United States

This certificate confirms that representative samples of:

UTOU - Control Units and Accessories, Household System Type

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

UL 985, Edition 6, Issue Date 2015-05-15, Revision Date 2022-10-07

Additional Information:
See UL Product iQ® at https://iq.ulprospector.com for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Model	Product Description
EOL10K	Control unit accessories, end of line resistor
StarLink, SLE-CDMA	Communicator
StarLink, SLE-CDMA-8D	Communicator
StarLink, SLE-CDMA-FIRE	Communicator
StarLink, SLE-FNI-CFB, SLE-LTEVI-CFB	Communicator
StarLink, SLE-FNI-CFB-PS, SLE-LTEVI-CFBPS	Communicator
StarLink, SLE-FNI-FIRE, SLE-LTEVI-FIRE	Communicator
StarLink, SLE-GSM-3/4G	Communicator
StarLink, SLE-GSM-8D-3/4G	Communicator
StarLink, SLE-GSM-FIRE	Communicator
StarLink, SLE-LTEA	Communicator
StarLink, SLE-LTEA-8D	Communicator
StarLink, SLE-LTEA-CB	Communicator
StarLink, SLE-LTEA-CB-TF	Communicator
StarLink, SLE-LTEA-CFB	Communicator
StarLink, SLE-LTEA-CFB-PS	Communicator
StarLink, SLE-LTEA-FIRE	Communicator
StarLink, SLE-LTEAI-CFB	Communicator
StarLink, SLE-LTEAI-CFBPS	Communicator
StarLink, SLE-LTEAI-FIRE	Communicator
StarLink, SLE-LTEV	Communicator
StarLink, SLE-LTEV-8D	Communicator
StarLink, SLE-LTEV-CB	Communicator
StarLink, SLE-LTEV-CB-C, SLE-LTEV-CBTF-C, SLE-LTEV-C, SLE-LTEV-Z	Communicator
StarLink, SLE-LTEV-CB-TF	Communicator
StarLink, SLE-LTEV-CFB	Communicator
StarLink, SLE-LTEV-CFB-PS	Communicator
StarLink, SLE-LTEV-FIRE	Communicator
StarLink, SLE-MAX2-CFB	Communicator
StarLink, SLE-MAX2-CFBPS	Communicator
StarLink, SLE-MAX2-FIRE	Communicator
SLE-MAXA	Communicator
SLE-MAXA-C	Communicator
SLE-MAXA-CB	Communicator
SLE-MAXA-CB-CF	Communicator

SLE-MAXA-CBTF-C	Communicator
SLE-MAXA-Z	Communicator
SLE-MAXAI-CFB	Communicator
SLE-MAXAI-CFBPS	Communicator
SLE-MAXAI-FIRE	Communicator
SLE-MAXV	Communicator
SLE-MAXV-C	Communicator
SLE-MAXV-CB	Communicator
SLE-MAXV-CB-TF	Communicator
SLE-MAXV-CBTF-C	Communicator
SLE-MAXV-Z	Communicator
SLE-MAXVI-CFB	Communicator
SLE-MAXVI-CFBPS	Communicator
SLE-MAXVI-FIRE	Communicator
SLE-ULPS-R power supply module	Subassembly
SLE-WiFi Module	Communicator sub-assembly
SLE-ZWAVE-MOD	Communicator sub-assembly
StarLink, SLE3/4G-CB	Communicator
StarLink, SLE3/4G-CB-TF	Communicator
StarLink, SLE3/4G-CFB	Communicator
StarLink, SLE3/4G-CFB-PS	Communicator
StarLink, SLE3/4GI-CFB-PS, SLE3/4GI-CB-TF, SLE3/4GI-CFB, SLE3/4GI-CB, SLEGSMI-3/4G, SLE-GSMI-FIRE	Communicator
StarLink, SLECDMA-CB	Communicator
StarLink, SLECDMA-CB-TF	Communicator
StarLink, SLECDMA-CFB	Communicator
StarLink, SLECDMA-CFB-PS	Communicator
StarLink, SLECDMAI-CFB-PS, SLECDMAI-CB-TF, SLECDMAI-CFB, SLECDMAI-CB, SLE-CDMAI, SLE-CDMAI-FIRE	Communicator

Certificate of Compliance

Certificate Number:

UL-US-L2576-3267181-01405102-1

Report Reference:

S2576-20150410

Issue Date:

2024-02-23

Issued to:

Napco Security Technologies Inc
333 BAYVIEW AVE AMITYVILLE, NY 11701
United States

This certificate confirms that representative samples of:

NBSX - Household Burglar Alarm System Units

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

UL 1023, 7th Ed, Issue Date: 2017-9-1, Revision Date: 2021-5-20

Additional Information:
See UL Product iQ® at https://iq.ulprospector.com for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Model	Product Description
SLE-CDMA	Communicators
SLE-CDMA-8D	Communicators
SLE-CDMA-FIRE	Communicators
SLE-CDMAI	Communicators
SLE-CDMAI-FIRE	Communicators
SLE-FNI-CFB	Communicators
SLE-FNI-CFB-PS	Communicators
SLE-FNI-FIRE	Communicators
SLE-GSM-3/4G	Communicators
SLE-GSM-8D-3/4G	Communicators
SLE-GSM-FIRE	Communicators
SLE-GSMI-3/4G	Communicators
SLE-GSMI-FIRE	Communicators
SLE-LTEA	Communicators
SLE-LTEA-8D	Communicators
SLE-LTEA-CB	Communicators
SLE-LTEA-CB-TF	Communicators
SLE-LTEA-CFB	Communicators
SLE-LTEA-CFB-PS	Communicators
SLE-LTEA-FIRE	Communicators
SLE-LTEAI-CFB	Communicators
SLE-LTEAI-CFBPS	Communicators
SLE-LTEAI-FIRE	Communicators
SLE-LTEV	Communicators
SLE-LTEV-8D	Communicators
SLE-LTEV-CB	Communicators
SLE-LTEV-CB-TF	Communicators
SLE-LTEV-CFB	Communicators
SLE-LTEV-CFB-PS	Communicators
SLE-LTEV-FIRE	Communicators
SLE-LTEVI-CFB	Communicators
SLE-LTEVI-CFBPS	Communicators
SLE-LTEVI-FIRE	Communicators
StarLink, SLE-MAX2-CFB	Communicator
StarLink, SLE-MAX2-CFBPS	Communicator
StarLink, SLE-MAX2-FIRE	Communicator

SLE-MAXA	Communicators
SLE-MAXA-CB	Communicators
SLE-MAXA-CB-TF	Communicators
SLE-MAXA-Z	Communicators
SLE-MAXAI-CFB	Communicators
SLE-MAXAI-CFBPS	Communicators
SLE-MAXAI-FIRE	Communicators
SLE-MAXV	Communicators
SLE-MAXV-CB	Communicators
SLE-MAXV-CB-TF	Communicators
SLE-MAXVI-CFB	Communicators
SLE-MAXVI-CFBPS	Communicators
SLE-MAXVI-FIRE	Communicators
SLE-ULPS-R power supply module	Communicator subassemblies
SLE-WiFi-Module	Communicator subassemblies
SLE3/4G-CB	Communicators
SLE3/4G-CB-TF	Communicators
SLE3/4G-CFB	Communicators
SLE3/4G-CFB-PS	Communicators
SLE3/4GI-CB	Communicators
SLE3/4GI-CB-TF	Communicators
SLE3/4GI-CFB	Communicators
SLE3/4GI-CFB-PS	Communicators
SLECDMA-CB	Communicators
SLECDMA-CB-TF	Communicators
SLECDMA-CFB	Communicators
SLECDMA-CFB-PS	Communicators
SLECDMAI-CB	Communicators
SLECDMAI-CB-TF	Communicators
SLECDMAI-CFB	Communicators
SLECDMAI-CFB-PS	Communicators

Certificate of Compliance

Certificate Number:

UL-US-2406951-0

Report Reference:

S2576-20150410

Issue Date:

2024-02-23

Issued to:

Napco Security Technologies Inc
333 BAYVIEW AVE AMITYVILLE, NY 11701
United States

This certificate confirms that representative samples of:

AMQE - Commercial Premises Security Alarm Units and Systems

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

UL 2610, Edition: 2, Issue Date: 2021-4-7, Revision Date: 2023-1-31

Additional Information:
See UL Product iQ® at https://iq.ulprospector.com for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Model	Product Description
StarLink, SLE-MAX2-CFB	Communicator
StarLink, SLE-MAX2-CFBPS	Communicator
StarLink, SLE-MAX2-FIRE	Communicator


NAPCO
StarLink