



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/>  
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# NAPCO StarLink

## Commercial Fire LTE Communicator Series

### AHJ Submittal Package

WI2200CLF 2/19

This package contains documents intended for submittal to the AHJ to be used in the planning and approval of commercial fire alarm installations using the NAPCO StarLink cellular fire communicator. The StarLink fire communicator models and applicable service plans referenced are fully compliant with UL 864 9th edition, NFPA 2010 and NFPA 2013, which permits its use as a sole path fire alarm communicator.

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Radio Model:	SLE-LTEV-CFB-PS	SLE-LTEV-FIRE	SLE-LTEV-CFB
Enclosure Type:	RED METAL	RED PLASTIC	RED METAL
Dimensions (W x D x H):	11½ x 9½ x 3½"	8 x 5½ x 1½"	11½ x 9½ x 3½"
Carrier:	Verizon LTE	Verizon LTE	Verizon LTE
<b>AGENCY LISTINGS</b>			
UL 985 Household Fire Warning System Units	UL Residential Fire	UL Residential Fire	UL Residential Fire
UL 1023 Household Burglar-Alarm System Units	UL Residential Burg	UL Residential Burg	UL Residential Burg
UL 864 Control Units and Accessories For Fire Alarm Systems, 9th Edition	UL Commercial Fire	UL Commercial Fire	UL Commercial Fire
UL 1610 Central-Station Mercantile Burglar-Alarm Units	UL Commercial / Mercantile Burg	UL Commercial / Mercantile Burg	UL Commercial / Mercantile Burg
Meets UL 864 10th edition requirements for sole path, primary or backup communications?	YES	YES	YES
California State Fire Marshal (CSFM):	CSFM 7300-0992:0144	CSFM 7300-0992:0144	CSFM 7300-0992:0144
NYFD Approved:	NYFD COA #6213	NYFD COA #6213	NYFD COA #6213
LAFD Approved:	YES	YES	YES
Radio Power Source:	<b>Direct 120VAC Powered</b> Includes power supply and provisions for backup battery. May also be powered by optional plug-in transformer (NAPCO model TRF12)	<b>Powered from panel</b> Input: 12 - 24VDC, 71mA standby, 200mA transmit	<b>Powered from panel</b> Input: 12-24VDC, 71mA standby, 200mA transmit
Communication Formats Supported	<ul style="list-style-type: none"> <li>• Contact ID</li> <li>• 4/2 Formats:</li> </ul> <p>Ademco Slow 4/2, 1400Hz or 2300Hz, 10pps; Ademco Slow 4/2,checksum, 1400Hz or 2300Hz, 10pps  Radionics Slow 4/2, 2300Hz 10pps; Radionics Slow 4/2, checksum, 2300Hz, 10pps  Silent Knight Fast 4/2, 1400 Hz or 2300Hz, 20pps; Silent Knight Fast 4/2, checksum, 1400 Hz or 2300Hz, 20pps  Radionics Fast 4/2, 2300Hz, 40pps, Radionics Fast 4/2, checksum, 2300Hz, 40pps  Universal High Speed, 1400Hz or 2300Hz, 40pps; Universal High Speed 4/2,checksum, 1400Hz or 2300Hz, 40pps</p>		

# Applicable Supported Service Plans

Radio Model:		SLE-LTEV-CFB-PS	SLE-LTEV-FIRE	SLE-LTEV-CFB
Service Plan	Description			
SLF-SVC-07-LTV	NFPA 72 2007 - UL864 9th Edition Commercial Fire Service Plan with 200 second check-in, Verizon LTE.	✓	✓	✓
SLF-SVC-10-LTV	NFPA 72 2010 - UL864 9th Edition Commercial Fire Service Plan with 5 minute check-in, Verizon LTE.	✓	✓	✓
SLF-SVC-13-LTV	NFPA 72 2013 - Commercial Fire Service Plan with 60 minute check-in, Verizon LTE. Sole Path Approved.	✓	✓	✓
SLF-SVC-BU-LTV	NFPA 72 UL864 9th Edition Commercial Fire Service Plan, Back up Communicator, 24 hour check-in. Verizon LTE. For supplemental communication only.	✓	✓	✓



# Universal StarLink™ Cellular Intrusion Alarm LTE-Series Communicators

## Napco StarLink Alarm Communicators For Universal Intrusion Account Reporting

### FEATURING

- **Universal** – Work on ALL panels and applications
- **Report to any Central Station** via dial-up or IP
- **Verizon® LTE Network, "The Nation's Largest and Most Reliable 4GLTE Network, Rated #1 Overall Network, proven to deliver consistently fast speeds and in more places than any other network!"** StarLink provides full data reporting on Verizon®, top-rated and multibillion-dollar cyberprotected cellular network for maximum security & liability protection
- **Full event reporting from any panel**, anywhere\*, field-proven to work virtually anywhere in US, on Panels using Contact ID or 4/2.
- **My StarLink Remote On/Off Consumer App** Email/text message (option)
- **Easiest, fastest installation** & activation with auto-dialer capture
- **Panel-Powered Technology™** (powered by panel), low current 71mA. (No separate power supply required.)
- **Generous Trade-up Incentive** available when you upgrade from old radios, networks, POTS, landlines or new installs, see [www.napcosecurity.com/starlink](http://www.napcosecurity.com/starlink)



#Verizon® rankings based on the RootMetrics US National RootScore® Report: 1H 2017. Tested with best commercially available devices on four national mobile networks across all available network types. The RootMetrics award is not an endorsement of Verizon®. Visit [www.rootmetrics.com](http://www.rootmetrics.com) for more details. Verizon® Speed & reliability Based on our analysis of Nielsen data. ©Verizon®, 2017.

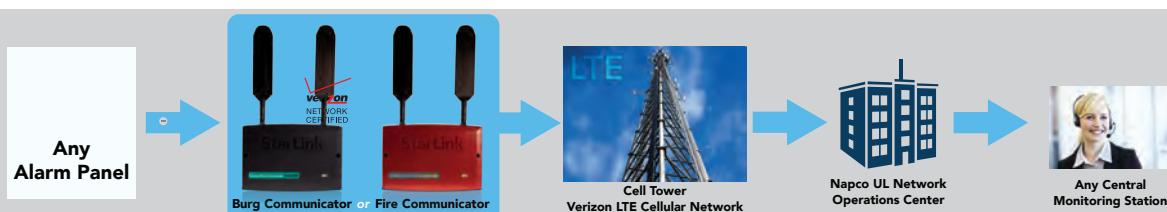
- Full event reporting from any panel, anywhere\*, field-proven to work virtually anywhere on Panels using Contact ID or 4/2.
- **Ultra-Affordable** enough to standardize on every account
- **Generous Trade-up Incentive** - Upgrade to StarLink from old radios, networks, POTS, landlines or new installs. See full details online at [www.napcosecurity.com/starlink](http://www.napcosecurity.com/starlink)
- **Simplest 4-Step, 4-Wire Installation & Easiest Activation** - Just Enter a Radio ID. Napco Auto-Dialer Capture completes all (no entering phones nos., formats, account nos.)
- **Reports to any Central Station.** NO special equipment. NO radio activation fee
- **Patented Signal-Boost™ Technology** for unprecedented reliability even in remote/fringe areas
- **My StarLink™ Smart Phone App**
- **Cellular or Optional Dual Path Cell &/or IP Communications** on leading cyberprotected multibillion dollar networks
- **Takeover Feature** - Easily captures any panel's existing CS phone number and allows rerouting to another central without going to the panel
- **Bonus: Full High-Speed Napco Panel Up/Downloading** – Remote super-speed uploading/ downloading, requires cable, SLE-DLCBL (see below).
- **Choice of economical subscriber service plans**, separately available at [www.napcocomnet.com](http://www.napcocomnet.com)

### SECURE & EASY INSTALLATION

- **Simplest 4-Step Installation: Register, Mount, Wire & Power-up**
  - STEP 1.** Register account online [www.napcocomnet.com](http://www.napcocomnet.com) and select options
  - STEP 2.** Mount StarLink & attach antenna
  - STEP 3. Wire For Primary Reporting connect 4 wires** (2 ea. Power (12V & Ground) & 2 ea. Panel (Tip & Ring); For Backup Applications use 6 Wires, those 4 + 1 ea. Tip and Ring)
  - STEP 4. Power. Panel-Powered Technology™** (See signals coming thru online, in real time). Low current draw, 71mA with peak RF transmission current of 200mA, for power by panel (no separate power supply)
- **Dual Diversity Antennae** – Precision LTE antennae design for maximum signal speed & range (M.I.S.O.), place unit up to 100 feet from the control panel for best antenna location (Also, new optional high-performance extended antenna options, see below)
- **Panel-Powered Technology™, low 71mA current draw, eliminates extra equipment.** Powered directly by Alarm Panel
- **Patented Signal-Boost™ Technology**, throughout the communication transmission & reception, i.e., at both the radio and the Network Operations Center (NOC), super-amplifies alarm signals and wave shapes for unprecedented reliability even in remote/fringe areas
- **Secure Encrypted Communications & UL Network Operations Center (NOC)**- StarLink radios will securely report full data to any central station you choose with no special equipment. They communicate to carrier infrastructure using spread spectrum at
- **Easy, Mobile-Friendly 24/7 Device Management & Real-Time Status Monitoring** of all radio accounts online at [www.napconoc2.com](http://www.napconoc2.com) (e.g., online, offline, check-in, signal strength level, trouble conditions, low battery/voltage input). (For easy account management go to [www.napcocomnet.com](http://www.napcocomnet.com))
- **Over-the-Air Upgradeable Communicator Firmware.** Remote ability for critical/mandatory updates, without a truck-roll
- **Full high-speed control panel upload/download supported on Gemini™ & Gemini Commercial** P816/1632/1664 and P9600/3200/X255 and GEMC/Firewolf Commercial series panels. (Note: Requires cable; #SLE-DLCBL)
- **Compliances: UL1610, UL985, UL1023, UL1635**

### OPTIONAL ACCESSORIES:

- **SLE-DLCBL** Gemini Up/Downloading Cable for Napco Panels (Gemini, Gemini Commercial/ Firewolf), only
- **A606 Free Resi. Trifold Enduser Tradeup Brochure** for new and existing accounts
- **A715, A716, A717 Free Commercial Tradeup Brochures** as above, for various account types
- **SLE-ANTEXT75** Optional Extended Antenna with 75' cable, (new conical shape)
- **SLE-ANTEXT50** As above, but with 50' cable
- **SLE-ANTEXT30** As above, but with 30' cable



# StarLink Fire Universal StarLink™ Cellular &/or IP Fire Alarm LTE-Series Communicators

## StarLink Commercial Fire Alarm Communicators For Universal 12V or 24V FACP Account Reporting

### FEATURING

- **Universal full event dual path cellular &/or IP commercial fire alarm reporting from any panel brand, virtually anywhere** (also available sole path Cellular model)
- **Code-compliant, replaces 2 POTs lines per FACP** saves thousands of dollars per year over leased landlines.
- **Supports 12V-24V control panels and FACPs** that communicate using Contact ID and 4/2 (such as on legacy panels), as primary or backup
- **Full data reporting to any Central Station, via Verizon LTE Network, "The Nation's Largest and Most Reliable 4GLTE Network**, Rated #1 Overall Network, proven to deliver consistently fast speeds and in more places than any other network#"
- **Communicate critical life and safety alarm reports on cyberprotected multibillion-dollar cellular network**, for maximum life safety & liability protection
- **Easiest installation, powered by panel, NO extra power supply, NO conduit, self-supervised on 4-wires.**
- **Over-the-Air Upgradeable Communicator Firmware.** Remote ability for critical/mandatory updates, without a truck-roll
- **Cost-saving models and choice of "unlimited-signal" plans for any code requirement.** Substantial savings over monthly dedicated landline charges plus unlimited signal plans for no surprise overages. And, **\$100 tradeup saving incentive for system upgrades** from old radios (all makes) and old POTs landlines, as well as new installations.



**SLE-LTEV-FIRE CELLULAR MODEL**  
or **SLE-LTEVI-FIRE CELL/IP**

**UL and NFPA 72 Fire Code-Compliant**, the StarLink Series Wireless Commercial Dual Path Cell/IP & Sole Path Cellular Fire Alarm Communicators provide universal support for any brand 12V to 24V fire alarm control panel, reporting in Contact ID and 4/2. With broadest Verizon® LTE coverage footprint available these Verizon Network Certified™ units use proven StarLink circuitry and are also available in mercantile locking metal models. All provide the most economical solution for easy, versatile installation. Also regional compliances, i.e., CSFM, NYCFD and more.

**Flexible Performance & Reporting Options.** StarLink Fire provides full data reporting in dual path, as a primary or backup, to any central station of your choice, without requiring any special equipment on premises. Ultra-affordable plans are available to meet various codes and requirements, with supervisory check-ins from 200 seconds, to 5-minutes, to an hour. The units are very easily activated, plans and options are selected, and 24/7 account management is provided all through [www.napcocomnet.com](http://www.napcocomnet.com).

**Easy, Universal Installation at Every Application; Panel-Powered Technology™** StarLink Fire Communicators are easily connected to any panel or Fire Alarm Control Panel (FACP) standardly operating between 12V and 24V. Flexible in any application, StarLink Fire also comes in standard, or Mercantile Models in metal housings, with code-compliant supervision, and choice of power options, **Panel-Powered Technology™** (powered by the panel) or direct-connect 120VAC models.

### SPECIFICATIONS (STANDARD MODELS)

- Advanced LTE Dual Diversity Antennae for optimized performance
- Durable ABS plastic housing includes three keyhole slots for mounting (for commercial application, aligns with triple gang boxes.)
- Panel-Powered Technology™ (powered by panel), typ. Low current draw, 71mA standby, 200mA transmit
- Dimensions: 5-3/8" x 7-7/8" x 1-7/8" (HxWxD)
- Weight: 13.5 oz
- 3 LED Indicators - Green, Signal Strength; Amber- Busy/Activation; Red-Trouble
- Patented Signal Boost™ signal amplification circuit and high-gain performance antenna
- Operating Environment: 0 to 49° C (32-120°F), up to 93% humidity (non-condensing)
- 12V - 24V Universal FACP Support, auto-current sensing. Support all brands communicating in Contact ID and 4/2

### ORDERING INFORMATION:

**SLE-LTEVI-FIRE** Verizon Network Certified LTE® Service, Dual Path Commercial Fire Alarm Communicator, Cellular & IP, Verizon-Network Certified™, ABS. Low current draw, panel-powered-technology™ (powered directly from the control panel.)

**SLE-LTEV-FIRE** As above, but sole path cellular model.

**SLELTEVI-CFB** Commercial Fire Dual Path Mercantile model in red metal housing, LTE, Verizon-Network Certified powered directly from control panel

**SLELTEVI-CFBPS** Commercial Fire Dual Path Mercantile model in red metal housing, CDMA, Verizon-Network Certified. Direct 120VAC Powered (w/ provisions for backup battery/charger). Or, Optional TRF12 plug-in transformer may be used, where codes permit

### A720 Commercial Fire Tradeup Trifold Brochures

/Mailers/Stuffers for new and existing fire accounts

**SLE-ANTEXT75** Optional Extended Antenna with 75' cable, (new conical shape)

**SLE-ANTEXT50** As above, but with 50' cable

**SLE-ANTEXT30** As above, but with 30' cable



**BROAD RANGE INCLUDING MERCANTILE MODELS**

**COMPLIANCES:** NFPA 72 Editions: 2016, 2013, 2010, 2007; UL 864, 10th Ed., UL985; NYCFD; CSFM



NAPCO Security Technologies, Inc. 1-800-645-9445 • 1-631-842-9400 • fax: 1-631-789-9292

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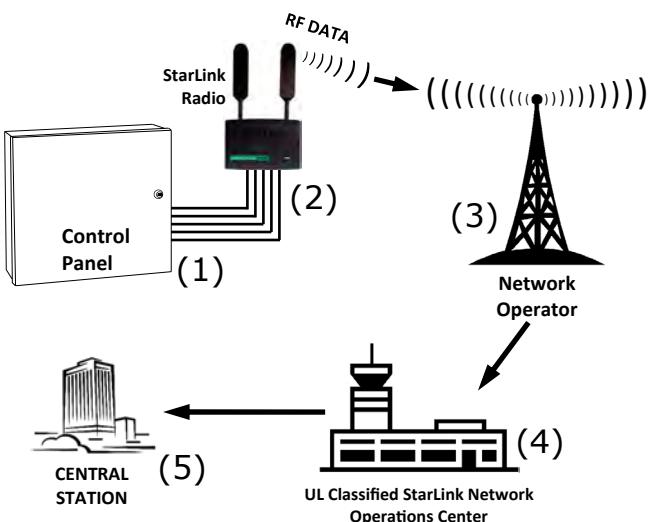
## INTRODUCTION

The StarLink™ **SLE-LTEV-FIRE** Commercial / Residential Fire and Burglary alarm capture radio communicator is a fully supervised, wireless digital two-way subscriber unit supported by an extensive nationwide wireless network. The model **SLE-LTEV-FIRE** is compatible with most 12 or 24VDC control panels (always adhere to the documentation provided by the control panel manufacturer). The **SLE-LTEV-FIRE** can function as a backup to existing telephone lines, or as sole path primary communicator. In backup mode, the **SLE-LTEV-FIRE** will automatically switch the communication channel from the telephone line to the network when telephone line trouble is detected. For Commercial installations, mount the unit to a single-, dual-, or three-gang electrical box and route the wires through the back knockout(s), or as specified by local codes. **See WI2140 (available on the NOC) for programming information.**

## STARLINK RADIO REPORTING PATH

The diagram below shows the transmission path of a signal from the StarLink radio to the central station.

1. **Signal from a Control Panel.**
2. **StarLink radio** receives the signal transmission (from the TIP and RING wires); sends RF signal through the network operator.
3. **Network Operator**, part of the vendor system, a section of the cellular spectrum.
4. **SLE Control Center**, receives and routes data.
5. **Central Station.**



# SLE-LTEV-FIRE

## Residential / Commercial Series

## Alarm Communicator Submittal Data Sheet

The SLE-LTE Series radios use proprietary data-capture technology that captures the alarm report from the control panel and transmits the alarm signals to the SLE Control Center; the alarm signals are then forwarded to ANY central station via Contact ID or Sur-Gard System II via TCP/IP using standard line security. 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. In addition, all models are powered directly from the control panel.



### SLE-LTEV-FIRE

Commercial / Residential Fire and Burglary alarm capture Communicator. SIM card included. Red plastic enclosure. Rated 12/24VDC input.

## FIRE ALARM COMPATABILITY

The StarLink™ model **SLE-LTEV-FIRE** communicator is compatible with most 12 or 24VDC control panels. The FACP must be equipped with a DACT that transmits central station reports in Contact ID or 4/2 central station formats. The control panel may also trigger communication events through the use of FACP dry contacts connecting the (3) radio inputs, capable of transmitting (4) distinct alarm and trouble event reports to the central station.

## ADDITIONAL COMPONENTS

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

**SLE-DLCBL** - Download Cable, 6 feet

**SLE-ANTEXT30** - Extended antenna with 30 feet of cable

**SLE-ANTEXT50** - Extended antenna with 50 feet of cable

**SLE-ANTEXT75** - Extended antenna with 75 feet of cable

(Any suitable external cellular antenna is permitted by UL). Always follow the manufacturer's installation instructions. **Note:** Antennas are not Listed by UL. For LTE radios where an External Antenna needs to be installed outside of the room in which the radio is installed (maximum 30 meters (98 feet) in Residential applications), please use RF Transmitter Board 9SLELTEEXAPSLS available from our Customer Service Department, if not provided. The 9SLELTEEXAPSLS is identified by "two red dots" located on the lower right corner of the board. See WI2239 included with the 9SLELTEEXAPSLS for the simple installation procedure.

## SPECIFICATIONS

The following specifications apply to all StarLink radio models unless otherwise stated:

### Electrical Ratings (powered by the control panel)\*

- Input Voltage: 10-25VDC (power-limited output from Listed control panel).
- Input Current: 10V = 90mA, 12V = 71mA, 15V = 63mA and 25VDC = 68mA with peak RF transmission current of 200mA.

### Electrical Ratings for the IN 1 Burg/Fire Input:

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

### Electrical Ratings for IN 2 and IN 3:

- Maximum Loop Voltage: Max 25VDC input.

- Maximum Loop Current: 1.2mA
- End of Line Resistor (EOLR) Value: 10K (2 req'd)

### Electrical Ratings for 3 PGM Outputs:

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

### Physical (W x H x D)

- Plastic Housing: 8 x 5<sup>29</sup>/<sub>64</sub> x 1<sup>1</sup>/<sub>2</sub>" (20.3 x 13.9 x 3.8cm)
- Mounting: Plastic housing includes three keyhole slots for triple gang boxes (see scale template on page 20);

### Environmental

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

## AGENCY LISTINGS



- UL 864 Standard For Control Units and Accessories For Fire Alarm Systems, 10th Edition
- UL 1610 Standard For Central-Station Burglar-Alarm Units
- UL 985 Standard For Household Fire Warning System Units
- UL 1023 Standard For Household Burglar-Alarm System Units

Commercial Fire Radios CSFM Listed and NYCDF COA #6213

**LTEV models are Verizon® Network Certified**

## NOTICE TO AUTHORITIES HAVING JURISDICTION, USERS, INSTALLERS, DEALERS, AND OTHER AFFECTED PARTIES

FIRE PROGRAMMING OPTION	PERMITTED IN UL864? (Y/N)	AVAILABLE SETTINGS	REQUIRED UL 864 SETTINGS
Unattended Remote Downloading	No	Enable / Disable	Disabled (Jumper 1 installed). Also required for Commercial / Burglary installations. Note: See page 8 "Configuration Download / Firmware Updates" for jumper instructions.
IN2 and IN3 Unsupervised	Yes	Supervised / Unsupervised	Unsupervised using conduit within 20 feet of FACP (default). If not using conduit, install Jumpers 4 and 5 and EOL Resistors (see pages 3 and 4).
7 Day Supervision, Radio to NOC	No	200 seconds, 5 minutes, 60 minutes, 7 days	200 seconds, 5 minutes, 60 minutes

\*For Commercial Fire installations, a UL Listed Fire Alarm regulated power supply or FACP regulated auxiliary output is required.



# StarLink

## INTRODUCTION

The StarLink™ Commercial / Residential Fire and Burglary alarm capture radio communicators are fully supervised, wireless digital two-way subscriber units supported by an extensive nationwide wireless network. All models are compatible with most 12VDC alarm control panels (always adhere to the documentation provided by the control panel manufacturer). Model **SLE-LTEV-CFB** is compatible with most 12 or 24VDC control panels. All can function as a backup to existing telephone lines, or as sole path primary communicators. In backup mode, all units will automatically switch the communication channel from the telephone line to the network when telephone line trouble is detected. **See WI2140 for programming information.**

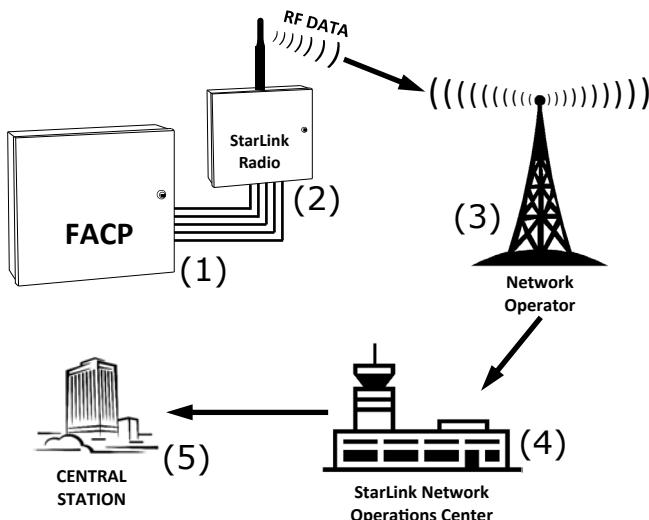
The SLE-LTE Series radios use data-capture technology that captures the alarm report from the control panel and transmits the alarm signals to the SLE Control Center; the alarm signals are then forwarded to ANY central station via Contact ID or Sur-Gard System II via TCP/IP using standard line security. 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.

**For Commercial Burglary installations, under the armed condition, any loss of communication must be treated as a Burglary Alarm at the Central Station.**

## STARLINK RADIO REPORTING PATH

The diagram below shows the transmission path of a signal from the StarLink radio to the central station.

1. **Signal from a Control Panel.**
2. **StarLink radio receives the signal transmission (from the TIP an RING wires); sends RF signal through the GPRS network operator.**
3. **Network Operator, part of the vendor system, a section of the cellular spectrum.**
4. **SLE Network Operations Center, receives / routes data.**
5. **Central Station.**



## SLE-LTEV-CFB-PS

## SLE-LTEV-CFB

# Commercial / Residential Fire and Burglary Series Alarm Communicators

## Submittal Data Sheet

**SLE-LTEV-CFB-PS:** Commercial / Residential Fire and Burglary Radio in red metal housing with SLE-ULPS-R power supply and 16.5V / 20VA transformer mounted inside housing

**SLE-LTEV-CFB:** Commercial / Residential Fire and Burglary in red metal housing. Powered directly from control panel (no power supply, no transformer, rated 12/24VDC input)



## FIRE ALARM COMPATABILITY

These StarLink LTE Series models are compatible with most 12VDC alarm control panels equipped with a DACT that must transmit central station reports in Contact ID or 4/2 central station formats. The control panel may also trigger communication events through the use of FACP dry contacts connecting the (3) radio inputs, capable of transmitting (4) distinct alarm and trouble event reports to the central station. The following features are included with models that include a SLE-ULPS-R power supply:

- Power limited output to the StarLink radio PC board 12V input terminals
- Battery connection red and black flying leads
- Monitored battery charging and Active battery test circuits
- StarLink radio trouble input (from StarLink radio PC board PGM1 terminal to detect StarLink radio 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 "LTE Trouble" (dry contacts). Remove jumper "J2" to isolate common from ground
- Green **AC ON** LED visible from the exterior housing
- Yellow **TROUBLE** LED on PC board. Flashes signify:
  - One flash: AC fail / brownout (2 hour delay)
  - Two flashes: Low battery
  - Three flashes: Charging circuit trouble
  - Four flashes: StarLink radio trouble

The housing-mounted transformer (when provided) is mounted inside its own housing compartment with a replaceable UL Listed .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.

## ADDITIONAL COMPONENTS

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 71mA of Auxiliary power required to operate the StarLink radio. Uses a standard 4AH / 12V minimum (7AH maximum) rechargeable battery to provide radio standby power. Requires connection to either the model NAP-CO 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 SLE-ULPS-R, connect the radio terminals 1 and 2 to the control panel Aux Power terminals (observing polarity).

**SLE-DLCBL** - Download Cable, 6 feet

**SLE-ANTEXT30** - Extended antenna with 30 feet of cable

**SLE-ANTEXT50** - Extended antenna with 50 feet of cable

**SLE-ANTEXT75** - Extended antenna with 75 feet of cable

(Any suitable external cellular antenna is permitted by UL). Always follow the manufacturer's installation instructions. **Note:** Antennas are not Listed by UL. For LTE radios where an External Antenna needs to be installed outside of the room in which the radio is installed (maximum 30 meters (98 feet) in Residential applications), please use RF Transmitter Board 9SLELTEEXAPSND available from our Customer Service Department, if not provided. The 9SLELTEEXAPSND is identified by "two red dots" located on the lower right corner of the board. See WI2239 included with the 9SLELTEEXAPSND for the simple installation procedure.

**GEM-Tamperkit** - Tamper switches and screws to protect metal housing

## SPECIFICATIONS

The following specifications apply to all StarLink radio models unless otherwise stated:

### Electrical Ratings for 120VAC, 60Hz

#### For Models with Power Supply

- Input Voltage: 120VAC nominal

- Input Current: 150mA maximum
- Maximum Charging Current: 200mA

### Electrical Ratings for +12V

#### For Models without Power Supply\*

- Input Voltage: 10-15VDC (power-limited output from Listed control panel). **Note:** Model SLE-LTEV-CFB is rated 10-25VDC input.
- Input Current for SLE-LTEV-CFB: 10V = 90mA, 12V = 71mA, 25V = 68mA, with peak RF transmission current of 200mA.

### Electrical Ratings for the IN 1 Burg/Fire Input:

- Input Voltage: 9-15VDC. **Note:** Model SLE-LTEV-CFB is rated 9-25VDC input.
- Maximum Input Current: Up to 2mA from FACP NAC circuit

### Electrical Ratings for IN 2 and IN 3:

- Maximum Loop Voltage: 15VDC. **Note:** Model SLE-LTEV-CFB is rated max 25VDC input.
- Maximum Loop Current: 1.2mA
- End of Line Resistor (EOLR) Value: 10K (2 req'd)

### Electrical Ratings for 3 PGM Outputs:

- Open Collector Outputs: Maximum Voltage 3V when active; 15V maximum when not active. **Note:** Model SLE-LTEV-CFB is rated max 25VDC output.
- 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

### Environmental

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

## AGENCY LISTINGS



- UL 864 Standard For Control Units and Accessories For Fire Alarm Systems, 10th Edition
- UL 1610 Standard For Central-Station Burglar-Alarm Units
- UL 985 Standard For Household Fire Warning System Units
- UL 1023 Standard For Household Burglar-Alarm System Units

LTEV models are *Verizon® Network Certified*

## NOTICE TO AUTHORITIES HAVING JURISDICTION, USERS, INSTALLERS, DEALERS, AND OTHER AFFECTED PARTIES

FIRE PROGRAMMING OPTION	PERMITTED IN UL864? (Y/N)	AVAILABLE SETTINGS	REQUIRED UL 864 SETTINGS
Unattended Remote Downloading	No	Enable / Disable	Disabled (Jumper 1 installed). Also required for Commercial / Burglary installations. <b>Note:</b> See the Installation Instructions section "Configuration Download / Firmware Updates" for jumper instructions.
IN2 and IN3 Unsupervised	No	Supervised / Unsupervised	Supervised (Jumpers 4 and 5 installed)
Radio Path Supervision	No	200 seconds, 5 minutes, 60 minutes, 7 days	200 seconds (UL 864 / UL 1610), 5 minutes (UL 864 9th edition), 60 minutes (UL 864 10th edition), 7 days (UL 985 / UL 1023)

\*For Commercial Fire installations, a UL Listed Fire Alarm regulated power supply or FACP regulated auxiliary output is required.



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# StarLink Antenna Extension Kits

## StarLink SLE Fire Series UL Listed Communicators

### Installation Instructions

WI2230BLF 6/18

The StarLink **Antenna Extension Kits** are designed to increase cellular transmission signal strength and provide an 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 enhances transmission and reception signals within the 824 - 894MHz and 1850 - 1990MHz bands, and are designed to minimize loss and maximize gain. The antenna is foam filled for vibration stabilization and long lasting performance in extreme conditions. A UV stable polyurethane finish provides outstanding corrosion resistance in the harshest environments. Each antenna includes an L bracket with stainless steel U Bolts for pole or wall mounting. The kits also include high quality, low loss coaxial cable and an adaptor for connection to the SMA female antenna connector of all StarLink radio models.

#### TECHNICAL SPECIFICATIONS

<b>Radiation Pattern</b>	Omni-Directional
<b>Gain</b>	4-9dBi
<b>Bandwidth</b>	VSWR: <1.5: 1 = 695-3000 MHZ in all 3G & 4G Bands
	VSWR: <2.0: 1 = 695-3000 MHZ
<b>Impedance</b>	50 ohms
<b>Max. Input Power</b>	50 watts
<b>Exterior Finish</b>	Black UV stable
<b>Dimensions</b>	8 $\frac{1}{8}$ " (225 mm) Length x 2 $\frac{3}{8}$ " (60 mm) od
<b>Weight</b>	10 oz.
<b>RF Connector</b>	Type N female
<b>PIM</b>	-155dBc
<b>Installation</b>	Included L Bracket with U-bolts for up to 2" pole
<b>Elements</b>	Copper
<b>Polarization</b>	Vertical
<b>Wind Rating</b>	> 110 MPH
<b>Warranty</b>	36 months
<b>Environments:</b>	Indoor or outdoor use

#### ORDERING INFORMATION

- SLE-ANT** - Antenna only, black UV stable finish
- SLE-ANTEEXT30** – 30' Antenna Extension Kit, Includes **SLE-ANT** Antenna, 30' Coax Type N male to MINI-UHF male terminated cable and SMA M to MINI-UHF F Adaptor
- SLE-ANTEEXT50** - 50' Antenna Extension Kit, Includes **SLE-ANT** Antenna, 50' Coax Type N male to MINI-UHF male terminated cable and SMA M to MINI-UHF F Adaptor
- SLE-ANTEEXT75** - 75' Antenna Extension Kit, Includes **SLE-ANT** Antenna, 75' Coax Type N male to MINI-UHF male terminated cable and SMA M to MINI-UHF F Adaptor

**IMPORTANT: DO NOT ALTER OR ADD COAXIAL CABLE!**  
**DO NOT PLACE ANTENNA WITHIN 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).





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# StarLink™ SLE-LTEV-CFB-PS

## NFPA 2010 AHJ Inspection Guide

WI2175CLF 9/18

The NAPCO **SLE-LTEV-CFB-PS** Commercial Fire communicator is fully compliant with the 2010 edition of NFPA 72, and is approved as a Fire alarm communicator. The capability of indicating and communicating signal failures to the central station within 5 minutes of an outage allows this communicator to replace existing telephone lines.

The following testing guide is intended to assist with the AHJ inspection of the 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 communicator in standby mode, ensure the LEDs display as follows:

LED	Verify this Condition	Passed?
Yellow Operational LED <b>D4</b>	Blinks every 10 seconds (indicates normal operation).	<input type="checkbox"/>
Green RF Signal LED <b>D3</b>	Blinks at least 2 times (indicates minimally acceptable signal strength).	<input type="checkbox"/>
Red Trouble LED <b>D5</b>	OFF (indicates no trouble present).	<input type="checkbox"/>
Yellow Trouble LED on the SLEULPS-R	OFF (indicates no trouble present).	<input type="checkbox"/>

### 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.	<input type="checkbox"/>
Trouble Relay Output	Activates after 2 hours; check for proper trouble annunciation at FACP.	<input type="checkbox"/>

Restore radio AC power:

Yellow Trouble LED	Turns off.	<input type="checkbox"/>
Trouble Relay Output	Restores; check for proper trouble restoral at FACP.	<input type="checkbox"/>

### 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.	<input type="checkbox"/>
Trouble Relay Output	Activates within 200 seconds; check for proper trouble annunciation at FACP.	<input type="checkbox"/>

Reconnect the radio battery:

Yellow Trouble LED	Turns off.	<input type="checkbox"/>
Trouble Relay Output	Restores; check for proper trouble restoral at FACP.	<input type="checkbox"/>

(continued)

## Signal Loss Test

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

Remove the antenna and observe the following indications:

LED	Verify this Condition	Passed?
Red Trouble LED D5	Blinks 5 times.	<input type="checkbox"/>
Yellow Trouble LED on SLE-ULPS-R	Blinks 4 times.	<input type="checkbox"/>
Trouble Relay Output on SLE-ULPS-R	Activates within 5 minutes; check for proper trouble annunciation at FACP.	<input type="checkbox"/>
	Supervisory signal <b>E356</b> will be received by the central station within 5 minutes of the antenna being removed.	<input type="checkbox"/>

Reconnect the antenna:

Red Trouble LED D5	Turns off.	<input type="checkbox"/>
Yellow Trouble LED on SLE-ULPS-R	Turns off.	<input type="checkbox"/>
Trouble Relay Output on SLE-ULPS-R	Restores; check for proper trouble restoral at FACP.	<input type="checkbox"/>
	Supervisory restore signal <b>R356</b> will be received by the central station within 5 minutes of the antenna being reconnected.	<input type="checkbox"/>

**Note:** In cases where the 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.



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# StarLink™ SLE-LTEV-FIRE and SLE-LTEV-CFB

## NFPA 2010 AHJ Inspection Guide

WI2177CLF 9/18

The NAPCO **SLE-LTEV-FIRE** and **SLE-LTEV-CFB** Commercial Fire radios, fully compliant with the 2010 edition of NFPA 72, are approved as Fire alarm communicators. The capability of indicating and communicating signal failures to the central station within 5 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 a 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 SLE communicator in standby mode, ensure the LEDs display as follows:

LED	Verify this Condition	Passed?
Yellow Operational LED <b>D4</b>	Blinks every 10 seconds (indicates normal operation).	<input type="checkbox"/>
Green RF Signal LED <b>D3</b>	Blinks at least 2 times (indicates minimally acceptable signal strength).	<input type="checkbox"/>
Red Trouble LED <b>D5</b>	OFF (indicates no trouble present).	<input type="checkbox"/>
Yellow Trouble LED on the SLEULPS-R	OFF (indicates no trouble present).	<input type="checkbox"/>

### AC Failure Test

### No Battery / Low Battery Test

These models are 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 communicator will indicate a supervisory trouble condition to the FACP and central station upon loss of signal within the required time period.

Remove the antenna and observe the following indications:

LED	Verify this Condition	Passed?
Red Trouble LED <b>D5</b>	Blinks 5 times.	<input type="checkbox"/>
Yellow Trouble LED on SLE-ULPS-R	Blinks 4 times.	<input type="checkbox"/>
Trouble Relay Output on SLE-ULPS-R	Activates within 5 minutes; check for proper trouble annunciation at FACP	<input type="checkbox"/>
	Supervisory signal <b>E356</b> will be received by the central station within 5 minutes of the antenna being removed.	<input type="checkbox"/>

(continued)

Reconnect the antenna:

Red Trouble LED <b>D5</b>	Turns off.	<input type="checkbox"/>
Yellow Trouble LED on SLE-ULPS-R	Turns off.	<input type="checkbox"/>
Trouble Relay Output on SLE-ULPS-R	Restores; check for proper trouble restoral at FACP.	<input type="checkbox"/>
	Supervisory restore signal <b>R356</b> will be received by the central station within 5 minutes of the antenna being reconnected.	<input type="checkbox"/>

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



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# StarLink™ SLE-LTEVI-CFBPS

## Dual Path Fire Communicator

### NFPA 2010 AHJ Inspection Guide

WI2260ALF 9/18

The NAPCO **SLE-LTEVI-CFBPS** Dual Path Commercial Fire communicator, fully compliant with the 2010 edition of NFPA 72, is approved as a Dual Path fire alarm communicator. The capability of indicating and communicating signal failures to the central station within 24 hours of an outage allow this communicator to replace two existing telephone lines. **Note:** This communicator may also be configured as a Sole Path Fire communicator, fully compliant with the NFPA 72, 2010 edition.

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

#### Normal LED Indications

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

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

#### 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.	<input type="checkbox"/>
Trouble Relay Output	Activates after 2 hours; check for proper trouble annunciation at FACP.	<input type="checkbox"/>

Restore radio AC power:

Yellow Trouble LED	Turns off.	<input type="checkbox"/>
Trouble Relay Output	Restores; check for proper trouble restoral at FACP.	<input type="checkbox"/>

#### 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.	<input type="checkbox"/>
Trouble Relay Output	Activates within 200 seconds; check for proper trouble annunciation at FACP	<input type="checkbox"/>

(continued)

Reconnect the radio battery:

Yellow Trouble LED	Turns off.	<input type="checkbox"/>
Trouble Relay Output	Restores; check for proper trouble restoral at FACP.	<input type="checkbox"/>

### Signal Loss Test

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

Remove the antenna and observe the following indications:

LED	Verify this Condition	Passed?
Red Trouble LED <b>D5</b>	Blinks 5 times.	<input type="checkbox"/>
Trouble Relay Output on SLEULPS-R Trouble LED	Blinks 4 times.	<input type="checkbox"/>
	Supervisory signal <b>E788 (zone 1)</b> will be received by the central station within 24 hours of the antenna being removed.	<input type="checkbox"/>

Reconnect the antenna:

Red Trouble LED <b>D5</b>	Turns off.	<input type="checkbox"/>
Trouble Relay Output on SLEULPS-R Trouble LED	Turns off.	<input type="checkbox"/>
	Supervisory restore signal <b>R788 (zone 1)</b> will be received by the central station within 24 hours of the antenna being reconnected.	<input type="checkbox"/>

**Note:** In cases where the 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 communicators 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 <b>DS16</b>	Blinks 1 time every 4 seconds.	<input type="checkbox"/>
Yellow Trouble LED <b>DS15</b>	Remains on solid.	<input type="checkbox"/>
Green IP Network LED <b>DS14</b>	Turns off.	<input type="checkbox"/>
Trouble Relay Output on SLEULPS-R Trouble LED	Blinks 4 times.	<input type="checkbox"/>
	Supervisory signal <b>E788 (zone 2)</b> will be received by the central station within 24 hours of the Ethernet cable being removed.	<input type="checkbox"/>

(continued)

Reconnect the Ethernet cable:

Red Trouble LED <b>DS16</b>	Turns off.	<input type="checkbox"/>
Yellow Trouble LED <b>DS15</b>	Slow blink.	<input type="checkbox"/>
Trouble Relay Output on SLEULPS-R Trouble LED	Turns off.	<input type="checkbox"/>
Green IP Network LED <b>DS14</b>	1 Blink (Static IP) or 2 Blinks (DHCP)	<input type="checkbox"/>
	Supervisory restore signal <b>R788 (zone 2)</b> will be received by the central station within 24 hours of the Ethernet cable being reconnected.	<input type="checkbox"/>

## 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 <b>DS16</b>	Blinks 1 time every 4 seconds.	<input type="checkbox"/>
Yellow Trouble LED <b>DS15</b> on SLEULPS-R	Remains on solid.	<input type="checkbox"/>
Green IP Network LED <b>DS14</b>	Turns off.	<input type="checkbox"/>
Red Trouble LED <b>D5</b>	Blinks 5 times.	<input type="checkbox"/>
Trouble Relay Output on SLEULPS-R Trouble LED	Blinks 4 times.	<input type="checkbox"/>
	Supervisory signal <b>E356</b> will be received by the central station within 24 hours of the Ethernet cable and antenna being removed.	<input type="checkbox"/>

Reconnect both the Ethernet cable and antenna:

Red Trouble LED <b>DS16</b>	Turns off.	<input type="checkbox"/>
Yellow Trouble LED <b>DS15</b>	Slow blink.	<input type="checkbox"/>
Trouble Relay Output on SLEULPS-R Trouble LED	Turns off.	<input type="checkbox"/>
Green IP Network LED <b>DS14</b>	1 Blink (Static IP) or 2 Blinks (DHCP)	<input type="checkbox"/>
Red Trouble LED <b>D5</b>	Turns off.	<input type="checkbox"/>
	Supervisory restore signal <b>R356</b> will be received by the central station within 24 hours of the Ethernet cable and antenna being reconnected.	<input type="checkbox"/>



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# StarLink™ SLE-LTEVI-FIRE and SLE-LTEVI-CFB

## Dual Path Fire Communicators

### NFPA 2010 AHJ Inspection Guide

WI2262ALF 9/18

The NAPCO **SLE-LTEVI-FIRE** and **SLE-LTEVI-CFB** Commercial Fire communicators, fully compliant with the 2010 edition of NFPA 72, are approved as Dual Path fire alarm communicators. The capability of indicating and communicating signal failures to the central station within 24 hours of an outage allows each unit to replace two existing telephone lines. **Note:** These communicators may also be configured as Sole Path Fire communicators, fully compliant with the NFPA 72, 2010 edition.

The following testing guide is intended to assist with the AHJ inspection of a 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 unit in standby mode, ensure the LEDs display as follows:

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

#### AC Failure Test

#### No Battery / Low Battery Test

These models are 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 communicator will indicate a supervisory trouble condition to the FACP and central station upon loss of signal within the required time.

Remove the antenna and observe the following indications:

LED	Verify this Condition	Passed?
Red Trouble LED <b>D5</b>	Blinks 5 times.	<input type="checkbox"/>
Trouble Relay Output on PGM1 Trouble Output	Activates within 24 hours; check for proper trouble annunciation at FACP	<input type="checkbox"/>
	Supervisory signal <b>E788 (zone 1)</b> will be received by the central station within 24 hours of the antenna being removed.	<input type="checkbox"/>

(continued)

Reconnect the antenna:

Red Trouble LED <b>D5</b>	Turns off.	<input type="checkbox"/>
Trouble Relay Output on PGM1 Trouble Output	Restores; check for proper trouble restoral at FACP.	<input type="checkbox"/>
	Supervisory restore signal <b>R788 (zone 1)</b> will be received by the central station within 24 hours of the antenna being reconnected.	<input type="checkbox"/>

**Note:** In cases where the 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 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 <b>DS16</b>	Blinks 1 time every 4 seconds.	<input type="checkbox"/>
Yellow Trouble LED <b>DS15</b>	Remains on solid.	<input type="checkbox"/>
Green IP Network LED <b>DS14</b>	Turns off.	<input type="checkbox"/>
Trouble Relay Output on PGM1	Activates within 24 hours; check for proper trouble annunciation at FACP	<input type="checkbox"/>
	Supervisory signal <b>E788 (zone 2)</b> will be received by the central station within 24 hours of the Ethernet cable being removed.	<input type="checkbox"/>

Reconnect the Ethernet cable:

Red Trouble LED <b>DS16</b>	Turns off.	<input type="checkbox"/>
Yellow Trouble LED <b>DS15</b>	Slow blink.	<input type="checkbox"/>
Trouble Relay Output on PGM1	Restores; check for proper trouble restoral at FACP.	<input type="checkbox"/>
Green IP Network LED <b>DS14</b>	1 Blink (Static IP) or 2 Blinks (DHCP)	<input type="checkbox"/>
	Supervisory restore signal <b>R788 (zone 2)</b> will be received by the central station within 24 hours of the Ethernet cable being reconnected.	<input type="checkbox"/>

(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 <b>DS16</b>	Blinks 1 time every 4 seconds.	<input type="checkbox"/>
Yellow Trouble LED <b>DS15</b> on SLEULPS-R	Remains on solid.	<input type="checkbox"/>
Green IP Network LED <b>DS14</b>	Turns off.	<input type="checkbox"/>
Red Trouble LED <b>D5</b>	Blinks 5 times.	<input type="checkbox"/>
Trouble Relay Output on PGM1	Activates within 24 hours; check for proper trouble annunciation at FACP	<input type="checkbox"/>
	Supervisory signal <b>E356</b> will be received by the central station within 24 hours of the Ethernet cable and antenna being removed.	<input type="checkbox"/>

Reconnect both the Ethernet cable and antenna:

Red Trouble LED <b>DS16</b>	Turns off.	<input type="checkbox"/>
Yellow Trouble LED <b>DS15</b>	Slow blink.	<input type="checkbox"/>
Trouble Relay Output on PGM1 Trouble Output	Restores; check for proper trouble restoral at FACP.	<input type="checkbox"/>
Green IP Network LED <b>DS14</b>	1 Blink (Static IP) or 2 Blinks (DHCP)	<input type="checkbox"/>
Red Trouble LED <b>D5</b>	Turns off.	<input type="checkbox"/>
	Supervisory restore signal <b>R356</b> will be received by the central station within 24 hours of the Ethernet cable and antenna being reconnected.	<input type="checkbox"/>



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# StarLink™ Model SLE-LTEV-CFB-PS

## Sole Path Fire Communicator

### NFPA 2013 AHJ Inspection Guide

WI2176CLF 9/18

The NAPCO **SLE-LTEV-CFB-PS** Commercial Fire communicator, fully compliant with the 2013 edition of NFPA 72, 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 **SLE-LTEV-CFB-PS** to replace existing telephone lines.

The following testing guide is intended to assist with the AHJ inspection of the 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 <b>D4</b>	Blinks every 10 seconds (indicates normal operation).	<input type="checkbox"/>
Green RF Signal LED <b>D3</b>	Blinks at least 2 times (indicates minimally acceptable signal strength).	<input type="checkbox"/>
Red Trouble LED <b>D5</b>	OFF (indicates no trouble present).	<input type="checkbox"/>
Yellow Trouble LED on the SLEULPS-R	OFF (indicates no trouble present).	<input type="checkbox"/>

#### 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.	<input type="checkbox"/>
Trouble Relay Output	Activates after 2 hours; check for proper trouble annunciation at FACP.	<input type="checkbox"/>

Restore radio AC power:

Yellow Trouble LED	Turns off.	<input type="checkbox"/>
Trouble Relay Output	Restores; check for proper trouble restoral at FACP.	<input type="checkbox"/>

#### 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.	<input type="checkbox"/>
Trouble Relay Output	Activates within 200 seconds; check for proper trouble annunciation at FACP	<input type="checkbox"/>

Reconnect the radio battery:

Yellow Trouble LED	Turns off.	<input type="checkbox"/>
Trouble Relay Output	Restores; check for proper trouble restoral at FACP.	<input type="checkbox"/>

(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 signal within the required time period.

Remove the antenna and observe the following indications:

LED	Verify this Condition	Passed?
Red Trouble LED D5	Blinks 5 times.	<input type="checkbox"/>
Yellow Trouble LED on SLEULPS-R	Blinks 4 times.	<input type="checkbox"/>
Trouble Relay Output on SLEULPS-R	Activates within 60 minutes; check for proper trouble annunciation at FACP	<input type="checkbox"/>
	Supervisory signal <b>E356</b> will be received by the central station within 60 minutes of the antenna being removed.	<input type="checkbox"/>

Reconnect the antenna:

Red Trouble LED D5	Turns off.	<input type="checkbox"/>
Yellow Trouble LED on SLEULPS-R	Turns off.	<input type="checkbox"/>
Trouble Relay Output on SLEULPS-R	Restores; check for proper trouble restoral at FACP.	<input type="checkbox"/>
	Supervisory restore signal <b>R356</b> will be received by the central station within 60 minutes of the antenna being reconnected.	<input type="checkbox"/>

**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.



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## StarLink™ Models: SLE-LTEV-FIRE and SLE-LTEV-CFB Sole Path Fire Communicators NFPA 2013 AHJ Inspection Guide

WI2178CLF 9/18

The NAPCO **SLE-LTEV-FIRE** and **SLE-LTEV-CFB** Commercial Fire radio communicators, fully compliant with the 2013 edition of NFPA 72, 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 a 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 <b>D4</b>	Blinks every 10 seconds (indicates normal operation).	<input type="checkbox"/>
Green RF Signal LED <b>D3</b>	Blinks at least 2 times (indicates minimally acceptable signal strength).	<input type="checkbox"/>
Red Trouble LED <b>D5</b>	OFF (indicates no trouble present).	<input type="checkbox"/>
Yellow Trouble LED on the SLEULPS-R	OFF (indicates no trouble present).	<input type="checkbox"/>

### 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 signal within the required time period.

Remove the antenna and observe the following indications:

LED	Verify this Condition	Passed?
Red Trouble LED <b>D5</b>	Blinks 5 times.	<input type="checkbox"/>
Yellow Trouble LED on SLEULPS-R	Blinks 4 times.	<input type="checkbox"/>
Trouble Relay Output on SLEULPS-R	Activates within 60 minutes; check for proper trouble annunciation at FACP	<input type="checkbox"/>
	Supervisory signal <b>E356</b> will be received by the central station within 60 minutes of the antenna being removed.	<input type="checkbox"/>

(continued)

Reconnect the antenna:

Red Trouble LED <b>D5</b>	Turns off.	<input type="checkbox"/>
Yellow Trouble LED on SLEULPS-R	Turns off.	<input type="checkbox"/>
Trouble Relay Output on SLEULPS-R	Restores; check for proper trouble restoral at FACP.	<input type="checkbox"/>
	Supervisory restore signal <b>R356</b> will be received by the central station within 60 minutes of the antenna being reconnected.	<input type="checkbox"/>

**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.



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# StarLink™ SLE-LTEVI-CFBPS

## Dual Path Fire Communicator

### NFPA 2013 AHJ Inspection Guide

WI2261ALF 9/18

The NAPCO **SLE-LTEVI-CFBPS** Commercial Fire communicator, fully compliant with the 2013 edition of NFPA 72, 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 allows the StarLink **SLE-LTEVI-CFBPS** communicator to replace two existing telephone lines. **Note:** The StarLink **SLE-LTEVI-CFBPS** communicator may also be configured as a Sole Path Fire communicator, fully compliant with the NFPA 72, 2013 edition.

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 <b>DS15</b>	1 Slow Blink (indicates normal operation).	<input type="checkbox"/>
Yellow Operational LED <b>D4</b>	Blinks every 10 seconds (indicates normal operation).	<input type="checkbox"/>
Green IP Network LED <b>DS14</b>	1 Blink (Static IP) or 2 Blinks (DHCP).	<input type="checkbox"/>
Green RF Signal LED <b>D3</b>	Blinks at least 2 times (indicates minimally acceptable signal strength).	<input type="checkbox"/>
Red IP Trouble LED <b>DS16</b>	OFF (indicates no trouble present).	<input type="checkbox"/>
Red Trouble LED <b>D5</b>	OFF (indicates no trouble present).	<input type="checkbox"/>
Trouble Relay Output on SLEULPS-R Trouble LED	OFF (indicates no trouble present).	<input type="checkbox"/>

#### 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.	<input type="checkbox"/>
Trouble Relay Output	Activates after 2 hours; check for proper trouble annunciation at FACP.	<input type="checkbox"/>

Restore communicator AC power:

Yellow Trouble LED	Turns off.	<input type="checkbox"/>
Trouble Relay Output	Restores; check for proper trouble restoral at FACP.	<input type="checkbox"/>

#### 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.	<input type="checkbox"/>
Trouble Relay Output	Activates within 200 seconds; check for proper trouble annunciation at FACP	<input type="checkbox"/>

(continued)

Reconnect the communicator battery:

Yellow Trouble LED	Turns off.	<input type="checkbox"/>
Trouble Relay Output	Restores; check for proper trouble restoral at FACP.	<input type="checkbox"/>

### 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.

Remove the antenna and observe the following indications:

LED	Verify this Condition	Passed?
Red Trouble LED <b>D5</b>	Blinks 5 times.	<input type="checkbox"/>
Trouble Relay Output on SLEULPS-R Trouble LED	Blinks 4 times.	<input type="checkbox"/>
	Supervisory signal <b>E788 (zone 1)</b> will be received by the central station within 6 hours of the antenna being removed.	<input type="checkbox"/>

Reconnect the antenna:

Red Trouble LED <b>D5</b>	Turns off.	<input type="checkbox"/>
Trouble Relay Output on SLEULPS-R Trouble LED	Turns off.	<input type="checkbox"/>
	Supervisory restore signal <b>R788 (zone 1)</b> will be received by the central station within 6 hours of the antenna being reconnected.	<input type="checkbox"/>

**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 <b>DS16</b>	Blinks 1 time every 4 seconds.	<input type="checkbox"/>
Yellow Trouble LED <b>DS15</b>	Remains on solid.	<input type="checkbox"/>
Green IP Network LED <b>DS14</b>	Turns off.	<input type="checkbox"/>
Trouble Relay Output on SLEULPS-R Trouble LED	Blinks 4 times.	<input type="checkbox"/>
	Supervisory signal <b>E788 (zone 2)</b> will be received by the central station within 6 hours of the Ethernet cable being removed.	<input type="checkbox"/>

(continued)

Reconnect the Ethernet cable:

Red Trouble LED <b>DS16</b>	Turns off.	<input type="checkbox"/>
Yellow Trouble LED <b>DS15</b>	Slow blink.	<input type="checkbox"/>
Trouble Relay Output on SLEULPS-R Trouble LED	Turns off.	<input type="checkbox"/>
Green IP Network LED <b>DS14</b>	1 Blink (Static IP) or 2 Blinks (DHCP)	<input type="checkbox"/>
	Supervisory restore signal <b>R788 (zone 2)</b> will be received by the central station within 6 hours of the Ethernet cable being reconnected.	<input type="checkbox"/>

## 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 <b>DS16</b>	Blinks 1 time every 4 seconds.	<input type="checkbox"/>
Yellow Trouble LED <b>DS15</b> on SLEULPS-R	Remains on solid.	<input type="checkbox"/>
Green IP Network LED <b>DS14</b>	Turns off.	<input type="checkbox"/>
Red Trouble LED <b>D5</b>	Blinks 5 times.	<input type="checkbox"/>
Trouble Relay Output on SLEULPS-R Trouble LED	Blinks 4 times.	<input type="checkbox"/>
	Supervisory signal <b>E356</b> will be received by the central station within 6 hours of the Ethernet cable and antenna being removed.	<input type="checkbox"/>

Reconnect both the Ethernet cable and antenna:

Red Trouble LED <b>DS16</b>	Turns off.	<input type="checkbox"/>
Yellow Trouble LED <b>DS15</b>	Slow blink.	<input type="checkbox"/>
Trouble Relay Output on SLEULPS-R Trouble LED	Turns off.	<input type="checkbox"/>
Green IP Network LED <b>DS14</b>	1 Blink (Static IP) or 2 Blinks (DHCP)	<input type="checkbox"/>
Red Trouble LED <b>D5</b>	Turns off.	<input type="checkbox"/>
	Supervisory restore signal <b>R356</b> will be received by the central station within 6 hours of the Ethernet cable and antenna being reconnected.	<input type="checkbox"/>



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# StarLink™ SLE-LTEVI-FIRE and SLE-LTEVI-CFB Dual Path Fire Communicators NFPA 2013 AHJ Inspection Guide

WI2263ALF 9/18

The NAPCO **SLE-LTEVI-FIRE** and **SLE-LTEVI-CFB** Dual Path Commercial Fire communicators, fully compliant with the 2013 edition of NFPA 72, 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 72, 2013 edition.

The following testing guide is intended to assist with the AHJ inspection of a StarLink Fire communicator installation. 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 <b>DS15</b>	1 Slow Blink (indicates normal operation).	<input type="checkbox"/>
Yellow Operational LED <b>D4</b>	Blinks every 10 seconds (indicates normal operation).	<input type="checkbox"/>
Green IP Network LED <b>DS14</b>	1 Blink (Static IP) or 2 Blinks (DHCP).	<input type="checkbox"/>
Green RF Signal LED <b>D3</b>	Blinks at least 2 times (indicates minimally acceptable signal strength).	<input type="checkbox"/>
Red IP Trouble LED <b>DS16</b>	OFF (indicates no trouble present).	<input type="checkbox"/>
Red Trouble LED <b>D5</b>	OFF (indicates no trouble present).	<input type="checkbox"/>

## 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 signal within the required time.

Remove the antenna and observe the following indications:

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

(continued)

Reconnect the antenna:

Red Trouble LED <b>D5</b>	Turns off.	<input type="checkbox"/>
Trouble Relay Output on PGM1 Trouble Output	Restores; check for proper trouble restoral at FACP.	<input type="checkbox"/>
	Supervisory restore signal <b>R788 (zone 1)</b> will be received by the central station within 6 hours of the antenna being reconnected.	<input type="checkbox"/>

**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 <b>DS16</b>	Blinks 1 time every 4 seconds.	<input type="checkbox"/>
Yellow Trouble LED <b>DS15</b>	Remains on solid.	<input type="checkbox"/>
Green IP Network LED <b>DS14</b>	Turns off.	<input type="checkbox"/>
Trouble Relay Output on PGM1	Activates within 6 hours; check for proper trouble annunciation at FACP	<input type="checkbox"/>
	Supervisory signal <b>E788 (zone 2)</b> will be received by the central station within 6 hours of the Ethernet cable being removed.	<input type="checkbox"/>

Reconnect the Ethernet cable:

Red Trouble LED <b>DS16</b>	Turns off.	<input type="checkbox"/>
Yellow Trouble LED <b>DS15</b>	Slow blink.	<input type="checkbox"/>
Trouble Relay Output on PGM1	Restores; check for proper trouble restoral at FACP.	<input type="checkbox"/>
Green IP Network LED <b>DS14</b>	1 Blink (Static IP) or 2 Blinks (DHCP)	<input type="checkbox"/>
	Supervisory restore signal <b>R788 (zone 2)</b> will be received by the central station within 6 hours of the Ethernet cable being reconnected.	<input type="checkbox"/>

(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 <b>DS16</b>	Blinks 1 time every 4 seconds.	<input type="checkbox"/>
Yellow Trouble LED <b>DS15</b> on SLEULPS-R	Remains on solid.	<input type="checkbox"/>
Green IP Network LED <b>DS14</b>	Turns off.	<input type="checkbox"/>
Red Trouble LED <b>D5</b>	Blinks 5 times.	<input type="checkbox"/>
Trouble Relay Output on PGM1	Activates within 6 hours; check for proper trouble annunciation at FACP	<input type="checkbox"/>
	Supervisory signal <b>E356</b> will be received by the central station within 6 hours of the Ethernet cable and antenna being removed.	<input type="checkbox"/>

Reconnect both the Ethernet cable and antenna:

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



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## UOXX.S2576 Control Unit Accessories, System

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### Control Unit Accessories, System

[See General Information for Control Unit Accessories, System](#)

**NAPCO SECURITY TECHNOLOGIES INC**

333 BAYVIEW AVE  
AMITYVILLE, NY 11701 USA

S2576

**Investigated to UL 864 (10th edition)**

**Communicator "StarLink"** Model(s) SLE-CDMA-FIRE (a), SLE-CDMAI-CFB, SLE-CDMAI-CFB-PS, SLE-CDMAI-FIRE, SLE-GSM-FIRE (a), SLE-GSMI-FIRE, SLE-LTEV-CFB, SLE-LTEV-CFB-PS, SLE-LTEV-FIRE, SLE3/4G-CFB (a), SLE3/4G-CFB-PS (a), SLE3/4GI-CFB, SLE3/4GI-CFB-PS, SLECDMA-CFB (a), SLECDMA-CFB-PS (a)

**Subassembly "StarLink"** Model(s) 9LTE24PSLD, 9SLECDMAIPSLD, 9SLEGSMDPPSLD, SLE-WiFi-Module

(a) - Model numbers may be followed by an alpha/numeric suffix for marketing purposes.

Note - Units are to be installed by experienced installers only.

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# FIRE PREVENTION & PUBLIC SAFETY BUREAU

## APPROVAL OF ALTERNATE TECHNOLOGY AS SINGLE COMMUNICATION PATH

The following technology, with the specific configuration, equipment, and requirements listed below, has been approved for use within the jurisdiction served by the LAFD. This approval letter shall be included on all plans submitted to the LAFD for alarm or monitoring systems utilizing this technology.

**System Name:** NAPCO StarLink SLE and SLE-LTE Commercial Fire Alarm Radio Communicators

**Transmission Technology:** Cellular CDMA or LTE via Verizon, or cellular GSM/GPRS via AT&T wireless service providers pursuant to manufacturer's certification; transmits RF data to StarLink Control Center, which then forwards TCP/IP data via Contact ID or Sur-Gard System II to designated central station.

**Method of signal and data integrity:** Method 2 – parity

**Communicator Make/Model and restrictions as shown:** All devices CSFM listing 7300-0992:0144

Model Number	Approved Network	Approved Technology
SLE3/4G-CFB(-PS)	AT&T ONLY	GSM ONLY
SLE-GSM-FIRE	AT&T ONLY	GSM ONLY
SLECDMA-CFB(-PS)	Verizon ONLY	CDMA ONLY
SLE-CDMA-FIRE	Verizon ONLY	CDMA ONLY
SLE-LTEV-CFB(-PS)	Verizon ONLY	LTE ONLY
SLE-LTEV-FIRE	Verizon ONLY	LTE ONLY

**Receiver Make/Model:** Any DACR technology capable of receiving SIA Contact ID; or DSC Sur-Gard Model System II via TCP/IP.

**Data Throttling capable?:** None indicated in manufacturer's installation instructions.

**Central Station:** Any LAFD-approved<sup>†</sup> central station supervising station equipped with a compatible receiver.

**Special Requirements:**

- <sup>†</sup> The central station supervising station must possess and maintain a current "F425" Fire Permit through the City of Los Angeles Office of Finance. Expiration or other loss of permit voids this approval.
- Any failure of the communication path shall be annunciated at the central station within 60 minutes.<sup>1</sup>
- Incomplete, corrupted, or other signal errors will be recorded and displayed at the central station.  
*Communicator will resend message if receipt is not acknowledged by receiver at central station.*
- The record and display rate of subsequent alarms will not be less than one every 10 seconds.<sup>2</sup>
- Where a minimum of 65mA of auxiliary power is not available for the StarLink radio, model SLE-ULPS-R power supply is required, which shall be connected either to model NAPCO TRF12 external plug-in transformer or the chassis-mounted 16.5VAC / 20VA transformer affixed inside the housing.
- Authorized for use only with the existing antenna supplied by radio; the use of an extension voids this approval.

**Inspection procedure:**

<sup>1</sup>Verify maximum 60-minute check-in and fail timing. Timing is programmed by installer into the communicator.

<sup>2</sup>Record and display rate can be tested by initiating two alarm devices simultaneously and then comparing time they were received/recorded by central station.

*Annunciator can display/verify: cellular signal strength (bar graph); modem operation, SIM card detection, cell tower detection, verification of SIM activation; if internet access and communication path is good.*

APPROVED BY: \_\_\_\_\_

A handwritten signature in blue ink, appearing to read "LAFD".

DATE: \_\_\_\_\_

11/2/18

**NOTE: This letter of approval supersedes the previous letter dated 1/9/17, which is now revoked.**

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



# LISTING SERVICE

**LISTING No.** 7300-0992:0144 **Page 1 of 1**

**CATEGORY:** 7300 -- FIRE ALARM CONTROL UNIT ACCESSORIES/MISC. DEVICES

**LISTEE:** Napco333 Bayview Avene, Amityville, NY 11701  
Contact: David Wagner (631) 842-9400 Fax (631) 842-2726  
Email: dwagner@napcosecurity.com

**DESIGN:** Models SLE3/4G-CB, SLE3/4G-CB-TF, SLE3/4G-CFB, SLE3/4G-CFB-PS, SLE-CDMA, SLE-CDMA-FIRE, SLE-GSM-3/4G, SLE-GSM-FIRE, SLECDMA-CB, SLECDMA-CB-TF, SLECDMA-CFB, SLECDMA-CFB-PS, \*SLE-LTEV-FIRE, \*SLE-LTEV-8D, \*SLE-LTEV, \*SLE-LTEV-CFB-PS, \*SLE-LTEV-CB-TF, \*SLE-LTEV-CFB and \*SLE-LTEV-CB 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-GSM-3/4G, SLE-CDMAI, SLE-GSMI-FIRE and SLE-CDMAI-FIRE Dual Path Communicators.

Refer to listee's data sheet for additional detailed product description and operational considerations.

**RATING:** 120 Vac - SLE3/4G-CB, SLE3/4GI-CB-TF, SLE3/4G-CFB-PS, SLE3/4GI-CFB-PS, SLECDMA-CFB-PS, SLECDMAI-CFB-PS, SLECDMA-CB-TF, SLECDMAI-CB-TF, \*SLE-LTEV-CFB-PS, \*SLE-LTEV-CB-TF

10-15 Vdc- SLECDMAI-CB, SLE3/4GI-CB, SLE-GSMI-3/4G, SLE-CDMAI, \*SLE-LTEV, \*SLE-LTEV-8D, \*SLE-LTEV-CB

10-25 Vdc- SLECDMAI-CFB, SLE3/4GI-CFB, SLE-GSMI-FIRE, SLE-CDMAI-FIRE, \*SLE-LTEV-FIRE, \*SLE-LTEV-CFB

11-15 Vdc- SLE3/4G-CB, SLE-CDMA, SLE-GSM-3/4G, SLECDMA-CB

11-25 Vdc - SLE3/4G-CFB, SLECDMA-CFB, SLE-CDMA-FIRE, SLE-GSM-FIRE

**INSTALLATION:** In accordance with listee's printed installation instructions, applicable codes & 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 control unit accessories for use with separately listed compatible fire alarm control units. Refer to listee's Installation Instruction Manual for details.

\*Rev 07-06-17 gt



This listing is based upon technical data submitted by the applicant. CSFM 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

Date Issued: **July 01, 2018** Listing Expires **June 30, 2019**

Authorized By: **DAVID CASTILLO, Program Coordinator**  
*Fire Engineering Division*

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20181101-S3641  
**Report Reference** S3641-20150411  
**Issue Date** 2018-NOVEMBER-01

**Issued to:** Napco Security Technologies Inc  
333 BAYVIEW AVE  
AMITYVILLE NY 11701

**This certificate confirms that representative samples of** SOFTWARE RECEIVERS  
Network Operations Center (NOC) System Software, Version 5.xx.xx, where "xx" may be any alphanumeric suffix representing minor software de-bugging only

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

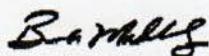
**Standard(s) for Safety:** UL 864, Control Units and Accessories for Fire Alarm Systems  
UL 1635, Digital Alarm Communicator System Units, UL 1610, Central-Station Burglar-Alarm Units  
UL 1610, Certification Requirement Decision – Requirements for Central Supervisory Station Equipment, Central Station Burglar Alarm Units

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide 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.



Bruce Mahrenholz, Director North American Certification Program  
UL LLC

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NOTICE OF COMPLETION  
AND  
AUTHORIZATION TO APPLY THE UL MARK



2018-08-03

MR. DAVID WAGNER  
Napco Security Technologies Inc  
333 BAYVIEW AVE  
AMITYVILLE, NY, 11701, US

Our Reference: File S3641, Vol 1

Order: 12431938  
Project 4788603209

Your Reference: PR55271-00

Project Scope: Napco Notifications Operation Center (NoC) updated software to version 4.xx.xx.  
Compatibility with DSC Sur-GARD V Central Station Receiver. No other changes  
to construction or operation

Dear MR. DAVID WAGNER:

Congratulations! UL's investigation of your product(s) has been completed under the above Reference Number and the product was determined to comply with the applicable requirements. This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Mark at authorized factories under UL's Follow-Up Service Program. To provide your manufacturer(s) with the intended authorization to use the UL Mark, you must send a copy of this notice to each manufacturing location currently authorized under File S3641, Vol 3 & S2576 Vol 18.

Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent in the near future. Until then, this letter authorizes application of the UL Mark for 90 days from the date indicated above.

Additional requirements related to your responsibilities as the Applicant can be found in the document "Applicant responsibilities related to Early Authorizations" that can be found at the following web-site: <http://www.ul.com/EAResponsibilities>

Any information and documentation provided to you involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

We are excited you are now able to apply the UL Mark to your products and appreciate your business. Feel free to contact me or any of our Customer Service representatives if you have any questions.

Very truly yours,

Alexander Kuman  
Project Engineer  
Alexander.Kuman@ul.com

Reviewed by:

Bruce A. Mahrenholz  
CPO Director  
Bruce.A.Mahrenholz@ul.com

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NOTICE OF COMPLETION  
AND  
AUTHORIZATION TO APPLY THE UL MARK



2018-10-6

MR. DAVID WAGNER  
Napco Security Technologies Inc  
333 BAYVIEW AVE  
AMITYVILLE, NY, 11701, US

Our Reference: File S3641, Vol 1

Order: 12439782  
Project 4788610757

:

Your Reference: PR55248

Project Scope: Add Bosch TCP/IP Protocol to NOC for Transmission to Bosch Listed Central  
Station Receivers (model D6100IPv6 & D6600)

Dear MR. DAVID WAGNER:

Congratulations! UL's investigation of your product(s) has been completed under the above Reference Number and the product was determined to comply with the applicable requirements. This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Mark at authorized factories under UL's Follow-Up Service Program. To provide your manufacturer(s) with the intended authorization to use the UL Mark, you must send a copy of this notice to each manufacturing location currently authorized under File S3641, Vol 1.

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Very truly yours,

Alexander Kuman  
Project Engineer  
Alexander.Kuman@ul.com

Reviewed by:

Bruce A. Mahrenholz  
CPO Director  
Bruce.A.Mahrenholz@ul.com

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333 Bayview Avenue, Amityville, New York 11701

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For Technical Service, (800) 645-9440 or visit us at

<http://tech.napcosecurity.com/>

**(Note: Technical Service is for security professionals only)**

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