NAPCO | COMMERCIAL

StarLink™ SLE Commercial Fire and Burglary Alarm Radio Communicators

INTRODUCTION

The StarLink™ Commercial 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). 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 Series radios use data-capture technology that captures the alarm report from the control panel and transmits the alarm signals to the StarLink Control Center; the alarm signals are then forwarded to ANY central station via Contact ID and is compatible with Sur-Gard TCP/IP central station receivers. The StarLink 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 Control Center**, receives and routes data.
5. **Central Station**.

ORDERING INFORMATION

SLECDMA-CFB-PS: Commercial / Residential Fire and Burglary CDMA Radio in red metal housing with SLE-ULPS-R power supply and 16.5V / 20VA transformer mounted inside housing, for direct connect to 120V AC branch circuit.

SLECDMA-CFB: Commercial / Residential Fire and Burglary CDMA Radio in red metal housing. Powered directly from control panel (no power supply, no transformer).

SLE-CDMA-FIRE - Commercial / Residential Fire and Burglary CDMA radio in red plastic enclosure. Powered directly from control panel (no power supply, no transformer).

The above models are approved as Sole Path Commercial Fire Alarm Communicators.

- UL 864 Standard For Control Units and Accessories For Fire Alarm Systems, 9th 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

SLECDMA-CB: Commercial / Residential Burglary and Residential Fire CDMA Radio in white metal housing. Powered directly from control panel (no power supply, no transformer).

SLECDMA-CB-TF: Commercial / Residential Burglary and Residential Fire CDMA Radio in white metal housing with SLE-ULPS-R power supply and TRF12 plug-in 16.5V / 20VA transformer.

- 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

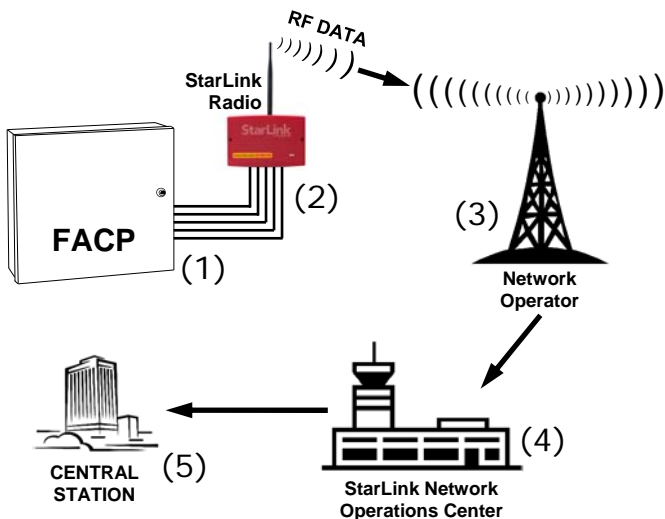**CDMA models are *Verizon® Network Certified***

FEATURES

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 "GSM 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
  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 65mA 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 NAPCO TRF12 (16.5V / 20VA) external plug-in transformer or the chassis-mounted 16.5VAC / 20VA transformer affixed inside the housing (see wiring diagrams in WI2100 or WI2120).

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-ANTEXT - Extended antenna with 15 feet of cable.

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: 400mA maximum
Maximum Charging Current: 200mA

Electrical Ratings for +12V
For Models without Power Supply
Input Voltage: 11-15VDC (power-limited output from Listed control panel)
Input Current: 65mA with peak RF transmission current of 400mA.

Electrical Ratings for the IN 1 Burg/Fire Input:
Input Voltage: 9-15VDC
Maximum Input Current: Up to 2mA from FACP NAC circuit

Electrical Ratings for IN 2 and IN 3:
Maximum Loop Voltage: 15VDC
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
Maximum PGM Sink Current: 50mA

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 WI2100)
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 single, double or triple gang boxes (see scale template in WI2120)

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

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 WI2100 page 7 "**Configuration Download / Firmware Updates**" for jumper instructions.
IN2 and **IN3** Unsupervised	No	Supervised / Unsupervised	Supervised (Jumpers 4 and 5 installed)
7 Day Supervision, Radio to NOC	No	200 seconds, 5 minutes, 60 minutes, 7 days	200 seconds, 5 minutes
4/2 Reporting	No	4/2 or Contact ID	Contact ID