



StarLink

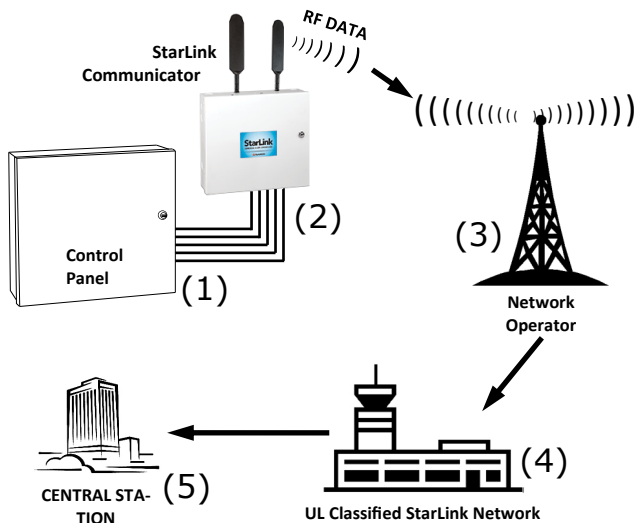
INTRODUCTION

The StarLink™ Residential Fire and Commercial/Residential Burglary alarm capture communicators are fully supervised, wireless digital two-way subscriber units supported by an extensive nationwide wireless network. The **SLE-MAXV-CB** operates on the Verizon network, the **SLE-MAXA-CB** on the AT&T network and both models utilize CAT-M1 technology. 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-MAX Series communicators 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 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

STARLINK COMMUNICATOR REPORTING PATH

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

1. **Signal from a Control Panel.**
2. **StarLink** communicator 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.**



StarLink™

SLE-MAXA-CB, SLE-MAXV-CB, SLE-MAXA-CB-TF, SLE-MAXV-CB-TF

Commercial Series Alarm Communicators Submittal Data Sheet



SLE-MAXV-CB & SLE-MAXA-CB:

Commercial / Residential Burglary and Residential Fire Communicator in white metal housing. Powered directly from control panel (no power supply, no transformer)

SLE-MAXV-CB-TF & SLE-MAXA-CB-TF:

Commercial / Residential Burglary and Residential Fire Communicator in white metal housing with SLE-ULPS-R power supply and TRF12/T123 plug-in 16.5V / 20VA transformer

Ethernet Adapter) 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. **Note:** UL Certified for UL 1076 APOU Proprietary Alarm Systems and UL 365 APAW Police Connect when reporting to a UL Certified Central Station Receiver Certified for UL 1076 APOU Proprietary Alarm Systems or UL 365 APAW Police Connect, respectively. For TCP/IP only Bosch D6600 or D6100IPV6 for UL1076 and UL365 applications. For the Napco Virtual IP Central Station Receiver (NCSR), UL 1076 -Standard for Proprietary Burglar Alarm Units and Systems and UL 1610 - Central-Station Burglar-Alarm Units.

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

The following features are included with models that include a SLE-ULPS-R power supply:

- Power limited output to the StarLink communicator PC board 12V input terminals
- Battery connection red and black flying leads
- Monitored battery charging and Active battery test circuits
- StarLink communicator trouble input (from StarLink communicator 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 "CAT-M1 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 communicator trouble

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.

The SLE-MAXA and SLE-MAXV 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.

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 communicator. Uses a standard 4AH / 12V minimum (7AH maximum) 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 SLE-ULPS-R, connect the communicator terminals 1 and 2 to the control panel Aux Power terminals (observing polarity).

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 and screws to protect metal housing.

SPECIFICATIONS

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

Electrical Ratings for 120VAC, 60Hz

For Models with Power Supply

- Input Voltage: 120VAC nominal
- Input Current: 10V = 70mA, 12V-15V = 65mA
- Maximum Charging Current: 200mA

Electrical Ratings for +12V

For Models without Power Supply

- Input Voltage: 10-15VDC (power-limited output from UL Certified control panel).
- Input Current: 10V = 70mA, 12V-15V = 65mA

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 (up to 15VDC)

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 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
- UL 1076 APOU Proprietary Alarm Systems
- UL 365 APAW Police Connect

MAXV models are Verizon® Network Certified

*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.