StarLink™
SLE-MAXA & SLE-MAXV
Residential / Commercial Series Sole Path Alarm Communicators Submittal Data Sheet

SLE-MAXV & **SLE-MAXA**:
Commercial / Residential Burglary and Residential Fire alarm capture Communicator, SIM card included. Black plastic enclosure.

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** operates on the Verizon network, the **SLE-MAXA** 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. 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 in the NOC Help) for programming information.**

The SLE-MAX Series communicators use proprietary data-capture technology that captures the alarm report from the control panel and transmits the alarm signals to the SLE Control Center; 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 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. In addition, all models are powered directly from the control panel.

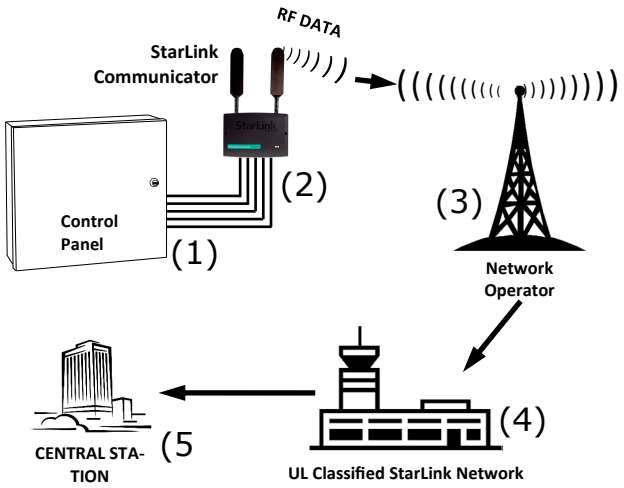
The **SLE-MAXA** and **SLE-MAXV** Series of Communicators are provided with two antennas. Only one antenna is active at a time, and should the communicator have a loss of adequate signal strength, the communicator will connect to the tower via the other antenna. If neither antenna can connect to the 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.

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

STARLINK 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 an 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**.



ADDITIONAL COMPONENTS

In addition to the models listed above, the following sub-assemblies are available (see next page for footnotes*):

SLE-DLCBL - Download Cable, 6 feet
SLE-ANTEXT30 – Antenna kit* with 30 feet of LMR 300 cable.
SLE-ANTEXT50 - Antenna kit* with 50 feet of LMR 300 cable.
SLE-ANTEXT75 - Antenna kit* with 75 feet of LMR 400 cable.
SLE-ANTEXT100 - Antenna kit* with 100 feet of LMR 400 cable.

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

SPECIFICATIONS

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

Electrical Ratings (all models powered by the control panel)

- 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), 25mA (15.1VDC - 25VDC)

Physical (W x H x D)

- Plastic Housing: 8 x 5-$^{29}/_{64}$ x 1½" (20.3 x 13.9 x 3.8cm)
- Mounting: Plastic housing includes three keyhole slots for triple gang boxes

Environmental

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

TERMINAL DESCRIPTIONS

Configure all inputs and outputs using the Management Center screen (located at www.napconoc.com). Located at the bottom of the StarLink communicator PC board, the 17 terminals are described as follows:

TB1: **PWR (+12V)**
(Refer to section "**STEP 4: APPLY POWER**")

TB2: **PWR GND (–)**
(Refer to section "**STEP 4: APPLY POWER**")

TB3: **PGM1 (–):** Open collector output. PGM1 is normally on (active low). When it is triggered (for example, a trouble is detected) it becomes open collector/high. To have a zone dedicated to a StarLink communicator trouble, insert one side of the end of line resistor into this PGM1 terminal, and wire the other side of the resistor to the positive terminal of the zone.

TB4: **PGM2 (–):** Open collector output. This output is defaulted as "Fail to Communicate", and is normally open collector/high. When a report fails to communicate anywhere in the communications path, the output is active low.

TB5: **PGM3 (–):** Open collector output that goes active low when the dealer-defined option occurs; see the NAPCO NOC (www.NapcoNOC.com) to configure options for PGM activation.

TB6: **IN 1:** Smart Channel input. Active high input for wiring to the control panel bell output. When this input detects a steady input, it sends a burglary alarm; a pulsing temporal 3 high, it sends a Fire alarm; a pulsing temporal 4 (CO Alarm), a CO alarm is sent. When used, these conductors must be run in conduit (max 3 feet for Residential Fire).

TB7: **IN 2:** See **TB9**, below.

TB8: **GND:** Common ground terminal.

TB9: **IN 3:** Programmable input; see the NAPCO NOC (www.NapcoNOC.com) for program choices. Supervision requires 10K EOL resistor; also install a jumper into "**X5**" terminals **4** and/or **5** to control supervision for **IN3** and/or **IN2**, respectively.

TB10: **TIP:** See **TB11**, below.

TB11: **RING:** Terminals **TIP** and **RING**: When used for backup reporting, the house tip and ring telephone wires must be routed from the outside to these terminals. Under normal back up conditions, these terminals are internally wired to the **PANEL TIP** and **PANEL RING** terminals, allowing all transmissions to the central station to be monitored. These wires are monitored for voltage such that if voltage falls below 1.5V, a Telco Line Fault trouble is detected, and the StarLink communicator applies telephone line voltage to the control panel Tip and Ring DACT interconnect to the communicator allowing it to receive and transmit any alarms sent by the control panel.

TB12: **PANEL RING:** See wiring diagrams.

TB13: **PANEL TIP:** See wiring diagrams.

Note: TB14-TB17 no connections permitted by UL.

TB14: **RTS (R):** See **TB17** below.

TB15: **PANEL TX (B):** See **TB17** below.

TB16: **PANEL RX (G):** See **TB17** below.

TB17: **CTS (Y):** No connections permitted.

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 AT&T and *Verizon® Network Certified*

*The above antenna kits include a high quality/low loss LMR 300 or 400 Coax Type N male to SMA male cable, mounting hardware and (optional use) SLE-ANTEXT-ISO Isolation Plate. Any external LTE 4G/5G cellular antenna is permitted by UL. Always follow the manufacturer's installation instructions. **Note:** Antennas are not Certified by UL.