StarLink™ Commercial
SLE-MAXVI-FIRE
SLE-MAXAI-FIRE
Sole/Dual-Path Alarm Communicators
Submittal Data Sheet

The two model names are:

- **SLE-MAXVI-FIRE**
- **SLE-MAXAI-FIRE**

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

INTRODUCTION

The **SLE-MAXVI-FIRE** and **SLE-MAXAI-FIRE** *Sole/Dual-Path Alarm Communicators* are specifically designed to interface with FACP (Fire Alarm Control Panels) and to comply with UL 864. The **SLE-MAXVI-FIRE** operates on the Verizon network, the **SLE-MAXAI-FIRE** on the AT&T network and both models utilize CAT-M1 technology. These devices support both Sole Path and Dual Path communication. Sole Path communication is cellular only and Dual Path communication is cellular and IP, which requires connection to the local network using the on-board Ethernet jack or via Wi-Fi using the optional UL 864 Certified **SLE-WIFI-MODULE**. The communication mode (Sole Path or Dual Path) requires selection of the appropriate service plan at the point of communicator activation. The communicators are equipped with two dry relays, one for a trouble output and one for an auxiliary output. The units are also equipped with four supervised inputs to report a Fire Alarm, a Fire Trouble, a Water Flow Alarm and a Supervisory Alarm, each triggered from the N/O and Common terminals of the associated FACP output relays. These communicators are for use as the primary means of communication with the central station and do not have backup mode capability. These Communicators can also be utilized as a Sole Path Cell Communicators. No POTS (Telco Line) connection permitted. For Commercial Burglary installations, under the armed condition, any loss of communication must be treated as a Burglary Alarm at the Central Station.

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

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

The **SLE-MAXVI-FIRE** and **SLE-MAXAI-FIRE** communicators use proprietary data-capture technology that captures the alarm report from the control panel and transmits the alarm signals to the SLE Control Center; 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, the **SLE-MAXVI-FIRE** and **SLE-MAXAI-FIRE** are powered directly from the control panel. **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 UL 365 applications. For the NAPCO Virtual IP Central Station Receiver (NCSR), UL 864 -Control Units and Accessories for Fire Alarm Systems, UL 1076 - Standard for Proprietary Burglar Alarm Units and Systems and UL 1610 -Central-Station Burglar-Alarm Units.

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

SLE-ANTEXTXXX Series of Extended Antenna Kits, connect it to the left antenna connector.

StarLink Fire Self-Supervision

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

ADDITIONAL COMPONENTS

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

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

SLE-DLCBL - Download Cable, 6 feet.

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

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

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

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

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

SPECIFICATIONS

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

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

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

Electrical Ratings for the IN 1 Fire Input:

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

Electrical Ratings for IN 2, IN 3, IN 4, and IN 5:

(Inputs **IN 2, IN 3, IN 4, and IN 5 are** Class B)

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

Electrical Ratings for PGM3 Output:

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

Physical (W x H x D)

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

Environmental

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

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

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

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