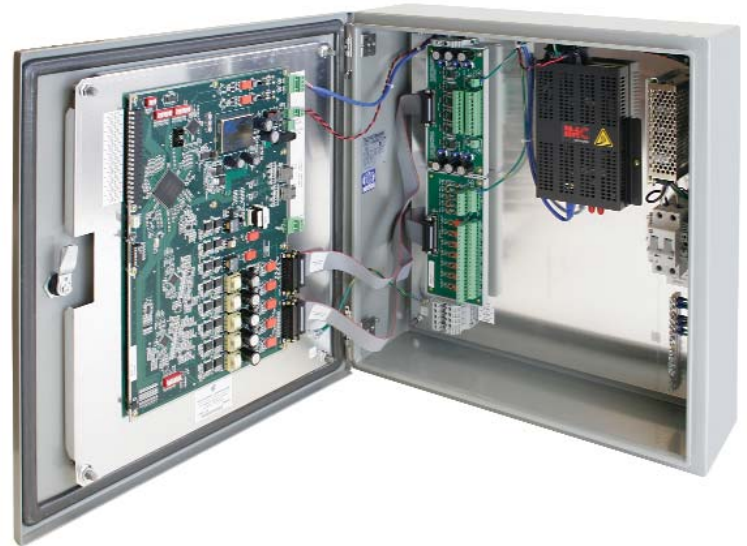


### Features:

- **For Use with Page Party® and SmartSeries™ Systems**
- **Transmission over an IP Network**
- **Digital Transmission of Page Line and 5 Party Lines and Data**
- **Transmission Range only limited by the IP Network**
- **T1 or E1 Technology Supported**
- **Page Line Monitor**
- **Audio Detector**
- **Ground-Fault Detector**
- **5 External Auxiliary Outputs**



The GAI-TRONICS Model LE300-IP Line Extender is used in pairs to connect two Page/Party®, SmartSeries™ or ICS systems together over an IP Network using Fast Ethernet or Gigabit Ethernet access. It can extend the system by linking two Page/Party® system cables located in areas separated by an appreciable distance.

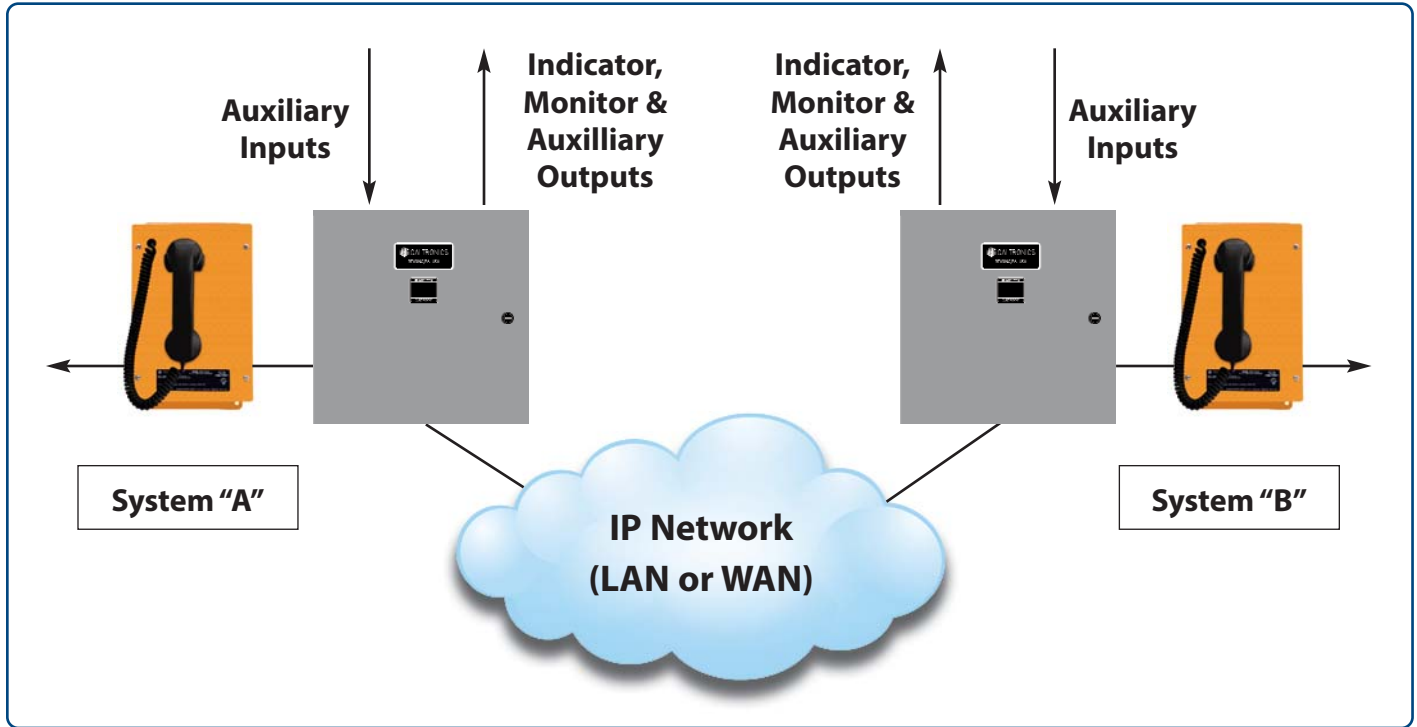
Each unit interfaces to one page line and up to five party lines, and provides connections for a page line audio detector output, a page line ground-fault detector output, a page line monitor output, five external auxiliary inputs, and five corresponding auxiliary contact closure outputs. There is no continuity (no dc path) between the system cables attached to the Model LE300-IPs on the opposite ends of a data link, so the Model LE300-IP must convey all audio signals, line conditions, and other device states across the data link in digital form.

The Model LE300-IP uses T1 or E1 carrier technology to digitize the audio signals present on its system cable and time-division multiplex (combine) them with additional data such as the state of its auxiliary inputs. The Model LE300-IP uses an IP network to transmit this 1.544 Mbps (T1) or 2.048 Mbps (E1) time-division multiplexed data stream to its companion unit.

In general, when a Model LE300-IP detects a condition on its associated system cable, it causes that same condition to appear on the corresponding system cable attached to its companion unit. For example, if it detects an off-hook condition on a party line, it causes the companion unit to simulate an off-hook condition at its corresponding party line interface. An auxiliary input controls only the corresponding auxiliary output on the companion unit. It does not affect any auxiliary outputs on the same unit.

### Application Diagram

When used to extend the system, two model LE300-IP Line Extenders are connected to any two points on the IP network. Multiple LE300-IPs can be used on the same network; however, they must be used in pairs. See below for a typical system application.



### Specifications

#### Electrical

Input Voltage ..... 120 – 230 V ac, 50/60Hz  
 Power Consumption ..... 82 watts (maximum)

#### Audio

Page Line and Party Line #1  
 Frequency Response ..... 300 Hz to 7 kHz  $\pm 0.5$ dB @ -10dB  
 Reference Voltage Level ..... 1.5 Vrms @ 33 $\Omega$  impedance (nominal)  
 Party Lines #2 to #5  
 Frequency Response ..... 300 Hz to 7 kHz  $\pm 0.5$ dB @ -10dB  
 Reference Voltage Level ..... 1.5 Vrms @ 33 $\Omega$  impedance (nominal)

#### Mechanical / Environmental

Enclosure Material ..... Steel  
 Dimensions ..... 20.0 H x 20.0 W x 6.9 D inches (508 x 508 x 173 mm) nominal  
 Weight ..... 40 lbs (18.1kg)  
 Enclosure Environmental Rating ..... NEMA Type 4  
 Temperature ..... +32° F to +122° F (0° C to 50° C)  
 Relative Humidity ..... 10-85% non-condensing