



GAI-TRONICS® CORPORATION
A HUBBELL COMPANY

SSM200 Card Rack Assembly

General Information

This data sheet applies to the SSM200 Card Rack Assembly, which is a central control designed to control a two-zone SmartSeries system. This system configuration provides health checking (supervision) for the system's cable on the page line, handset/speaker amplifiers, and speakers.

SmartSeries handset stations allow page and party line communications throughout the system. Additionally, two-way (telephone type) conversation can occur between stations on a party line. Single party line systems and five party line systems are available. Refer to Figure 1 for typical system diagram.

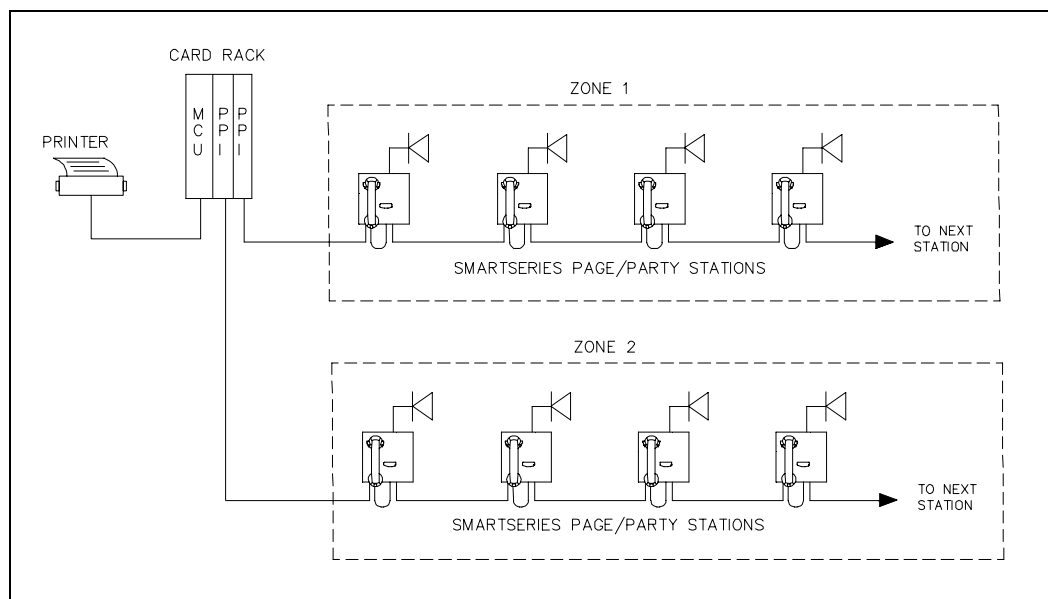


Figure 1. Typical SSM200 System Diagram

Capacities/Limitations

SmartSeries Stations - A maximum of 200 SmartSeries stations may be connected to each PPI card (zone) of the SSM200 Card Rack.

Speakers—Only one speaker can be connected to a SmartSeries station if the station is supervising the speaker. If speaker supervision is not being used, up to four speakers can be connected to a single station in low noise areas.

GAI-Tronics System Cable—The recommended maximum cable distance from the card rack to a SmartSeries station is 5,250 feet (1600 m).

GAI-Tronics Speaker Cable—The recommended maximum cable distance from a SmartSeries station to an 8 ohm speaker is 75 feet (22.86 meters). The maximum cable distance from a SmartSeries station to a 16 ohm speaker is 150 feet (45.72 meters).

Master Control Unit (MCU). Contains the central processing unit that coordinates all system operations as defined by its software configuration. The MCU maintains communication with all other cards in the card rack and with SmartSeries devices located throughout the system.

Page/Party® Interface (PPI). Interfaces SmartSeries and Page/Party® stations to the system. Each PPI card supports up to 200 SmartSeries stations and an unlimited number Page/Party® stations.

Optional Ancillary Equipment

The optional equipment discussed below can expand the standard features of the SSM100 Card Rack:

The **Model 10959-103 Audio Messenger Interface (AMI)** tone/speech generator broadcasts live pages, pre-recorded alarm tones, and pre-recorded speech messages. The included Audio Messenger Interface Configuration Tool (ACT) software is used to define and change configurations for the AMI. The AMI includes eight configurable inputs and outputs. Typically, the inputs are configured to activate alarm/process tones and/or pre-recorded speech messages, mute audio playback, and reset alarms. The outputs are generally used to activate remote alarm systems, interface to automated processes, interface to paging equipment, etc.

The AMI provides the ability to perform live speech pages from a telephone when the AMI must be connected to an analog station port of a PBX type telephone system, or directly to a Central Office telephone line on the public switched telephone network (PSTN). The AMI includes a built-in feedback eliminator.

The Model 10959-103 includes a Page/Party® system interface card. This interface card provides the capability to broadcast any audio generated by the AMI on a GAI-Tronics Page/Party® system. When coupled with a telephone interface card, the Page/Party® card provides telephone callers access to full-duplex line communications. Additionally, AMI models that include the 33-ohm Page/Party® interface card allow a telephone caller to direct the telephone call to a specific party line.

The **Model 10434-202NA Building Entrance Protection Barrier** provides secondary protection from signal line transients and over-voltage conditions that may cause serious damage to indoor equipment or injury to personnel.

Specifications

Electrical

Power supply.....	Fused at 2 A, 250 V (not user-serviceable)
Input voltage	120 V ac/240 V ac
Total power consumed.....	50 VA, 25 W maximum
Input frequency range	50/60 Hz
Input surge current (cold start).....	Less than 25 A peak maximum
AC input power connector (side)	IEC 320-style, 3-pin

Environmental

Temperature operating	+32° F to +122° F (0° C to +50° C)
Temperature storage	-40° C to +85° C
Relative humidity	Non-condensing, 5–85%

Mechanical

Unit dimensions	10.47 H × 8.55 W × 12.34 D inches (265.9 × 217.2 × 313.5 mm)
Unit weight	10 lbs. maximum