Integration Note

Manufacturer:	Napco
Model Number(s):	**Gemini P9600**
Core Module Versions:	4.0 Build 220 and later
Comments:	Panel Firmware V20 or higher
Document Revision Date:	10/26/17

OVERVIEW AND SUPPORTED FEATURES

The **Napco** panel integrates with the ELAN system using an RS-232 serial connection. The panel requires the **Automation Kit** from Napco, which includes the hardware needed to provide the RS-232 connection to the panel.

IMPORTANT! It is required to use a Napco GEM-RS232 automation kit that includes an RS-232 converter and 6C modular (RJ12 style) cable for serial connection to the security panel.

IMPORTANT! If using a legacy HomeBrick system controller the Napco panel must be connected to one of the two DB9 serial ports on the System controller with a cable run of no more that 50 feet. DO NOT connect the Napco panel to a SerialBrick or a USB – Serial Adapter.

IMPORTANT! YOU MUST HAVE THE MASTER SECURITY CODE FOR THE PANEL. The Automation Kit includes a chip with a unique Master Security Code: the code is printed on a label included with the chip, but it may not always be affixed to the chip. DO NOT LOSE THIS CODE.

THESE PANELS SUPPORT THE FOLLOWING FEATURES:

Arm – Disarm: Arm and disarm from the Viewer interface is supported. Status information is available for all partitions.

Auto Arm: Arming as a System Command from the Event Mapper is supported. By default, automatic arming is disabled in the Configurator.

Zone Status: Zone status information is available for all zones (in any partition), and is properly shown in the Viewer.

History View: The history view is properly supported on any Viewer.

Auto Zone and Partition Detection: The ELAN system can automatically detect the zone and partition information.

THESE PANELS DO NOT SUPPORT THE FOLLOWING FEATURES:

Arm Modes: The system can only be armed in AWAY mode from the ELAN interface. If the panel is armed in STAY mode from a security keypad ELAN will show the panel as armed and allow disarming from the ELAN interface.

Zone Bypass Status: Zones can be bypassed from the Viewer interface, but any zone bypassed from the Napco keypad will not appear as a bypassed zone in the Viewer interface.

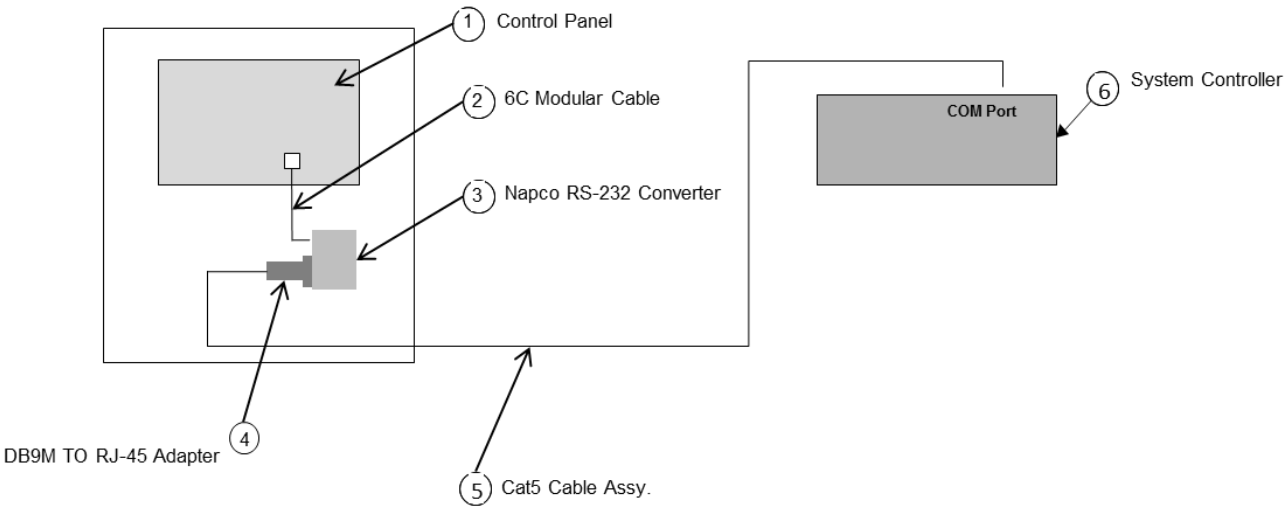
Serial Control on G1 Controller of Extender Com Ports: Napco may not be used with G1 controllers or any extender COM ports.

Any feature not specifically noted as supported should be assumed to be unsupported.

INSTALLATION OVERVIEW

1. Install the new chip included with Automation Kit into the panel, and be careful to record the Master Security Code for the new chip: this code is needed during configuration.
2. Install the security system according to the Napco instructions.
3. Run a Cat5 wire from the ELAN system to the security panel and test the cable.
4. Test the security panel, zone sensors and keypads for functionality.
5. Connect the ELAN system to the panel electrically. Refer to **Connection Diagram** below. You must connect the panel to one of the COM ports at the System controller: DO NOT USE A LEGACY SERIAL BRICK TO CONNECT TO THE NAPCO PANEL.
6. Configure the ELAN system controller communication device and security panel.
7. Click “Set Login PIN” button and enter the Napco automation chip master code to allow communication from ELAN.
8. Confirm communication between the panel and the ELAN system controller.
9. Test the arming and disarming capability from a computer or touch screen and confirm history function.

CONNECTION DIAGRAM



BILL OF MATERIALS

#	Device	Manufacturer	Part Number	Protocol	Connector Type	Notes
1	Control Panel	Napco	Gemini P9600/X255	RS-232	Various	
2	6C Modular cable	Napco	GEM-RS232	RS-232	DB-9 Female x RJ12	The 6C modular cable is included in the Automation Kit
3	RS-232 Converter	Napco	GEM-RS232	RS-232	DB-9 Female X RJ-12Female	Supplied in Napco GEM-RS232 automation kit
4	DB9M to RJ45 Adapter	ELAN	HA-CB-307	RS-233	DB-9 Male X RJ-45 Female	
5	Cat5 Cable	Installer	N/A	RS-233	RJ-45 Male X RJ-45 Male	Must terminate all 8 conductors
6	System Controller	ELAN	Various	RS-232	RJ45 Female	

PANEL PROGRAMMING

You must install the chip that is included with Automation Kit if needed.

Note: Newer Napco panels may come with the chip pre-installed.

If programming utilizing the Napco software, ensure the TCP/IP Communications box is **NOT** checked.

No further programming steps are required.

ELAN CONFIGURATION DETAILS

The following table provides settings used in the ELAN Configurator when connecting to the security panel. Please refer to the *Configurator Reference Guide for more details.*

- "<Select>" Select the appropriate item from the list (or drop-down) in the Configurator.
- "<User Defined>", etc. Type in the desired name for the item.
- "<Auto Detect>", etc. The system will auto detect this variable.

Devices	Variable Name	Setting	Comments
Communication Devices	**Name**	<User Defined> (Default: **Security**)	
	Type	**Serial Port**	
	Communication Type	**Standard Connection**	
	Location	<User Defined> (Not Required)	
	Com Port	<Select>	
Security Panels	**Name**	<User Defined> (Default: **Napco Gemini X255, P9600**)	
	Device Type	**Napco Gemini X255, P9600**	
	Location	<User Defined> (Not Required)	
	COM Device	<Select> (Default: **Secuirty**)	
PIN	**Set Button**	<User Defined>	See Note 1.
		Name Show Auto Keys	
	Disarm	**Disarm Yes NO Code+Enter**	
	Mode 1	**Away Yes NO Code+Enter**	
Partions	**Name**	<Auto Detect>	
	Show Partition	**Yes**	
	Areas in Partition	<User Defined> (Not Required)	
Zones	**Name**	<Auto Detect>	
	Enable Bypass	**Yes**	

Notes:

1. Click the Set Pin button then enter the Master Security Code provided with the Automation kit EPROM chip.

COMMON MISTAKES

1. Failing to enter the automation master code in the Configurator to allow panel communication with the controller.
2. Failing to use a compatible serial port. Refer to limitations above.
3. Using the CAT5/DB9 adapters provided by Napco. These adapters will not work with the ELAN system controller. You must use the adapters provided by ELAN for proper communication.
4. Failing to test the Cat5 cable assembly. It is easy to make a mistake when terminating the Cat5 cable with the RJ-45 connectors. Always use a LAN tester to check for continuity and shorts.
5. Using a Cat5 patch cable without all 8 conductors. Some Ethernet patch cables only have the 4 conductors (1,2,3,6) needed for Ethernet communications. These cables will not work as patch cables for RS-232 communications. Visually inspect the clear plastic connectors to determine if all 8 wires are present.
6. Using a null modem to connect the RS-232 port. The Napco panel connection does not require a null modem when connecting to a ELAN system controller.
7. Failing to connect the Napco panel with a serial run of less that 50 feet.
8. On legacy HomeBrick controllers - Failing to connect the Napco panel with either COM1 or COM2. Connecting to COM3, COM4, COM5 or COM6 will seem to work but will cause problems with the communication over time. DO NOT use these ports.