SIMPLWINDOWS NAME:	GE Security Advent/Concord Processor
CATEGORY:	Security System
VERSION:	1.0
DATE:	February 26, 2002
SUMMARY:	Provides feedback for keypad displays, partition status, and zone status
GENERAL NOTES:	This module will process all of the commands generated by the GE Security Advent/Concord Keypad Control module before sending them to the GE system. It will also process all of the real-time feedback provided by the GE system. It will provide the following information:

1. PARTITION-*-DISPLAY$ - shows the text that would be seen on the keypad in each of the 8 partitions. Can be used in conjunction with the GE KEYPAD CONTROL module for complete keypad emulation.
2. PARTITION-*-FB - Shows any of the 5 possible arming states for each of the 8 partitions
3. ZONE-STATUS$ - Serial signal which can be routed to the GE Zone Feedback Decoder module to determine the state of each of the 250 available zones.

Whenever the state of a parameter changes, the GE system will automatically notify the Crestron system. Therefore, constant polling is not needed. However, when the Crestron system is first powered on, in order to get the current status of the GE system, you can pulse the REQUEST-UPDATE input to receive the current state of the system. No further updates should be necessary.

Note that this module uses Simpl+ and can therefore only be used with a Generation CNX control system. This module has been tested on both Advent and Concord systems. The Concord system tested only supported 2 partitions and 76 zones.

CRESTRON HARDWARE REQUIRED:	CNXCOM-2, ST-COM
SETUP OF CRESTRON HARDWARE:	Baud Rate - 9600 Parity - Odd Data Bits - 8 Stop Bits - 1
VENDOR FIRMWARE:	For Advent: Control Panel Version 1.6 Automation Module Version 3.43
	For Concord: Version 2.5 or later
VENDOR SETUP:	You must use the GE Printer/Automation module to enable communications with the Crestron system. This module will attach to the GE bus, and will provide an RS232 port for use by the Crestron system. When ordering this module you must specify that it is for a Crestron control system. Use the 9 pin connector.
	The DIP switches inside the module should be set as follows:
	1 - On 2 - Off
CABLE NUMBER:	CNSP-121

CONTROL:

REQUEST-UPDATE	D	Pulse when it is desired to receive the current state of the GE system. Should only be needed upon startup of the Crestron system.
FROM-PROGRAM$	S	Serial signal to be routed from the TO-ITI-PROCESSOR$ output of the GE Advent Keypad Control module
ITI-RX$	S	Serial data signal to be routed from a 2-way RS232 port.

FEEDBACK:

PARTITION-*-DISPLAY$	S	Serial signals containing the text that is shown on the GE keypads in each of the 8 partitions.
PARTITION-*-FB	D	Feedback signals indicating the arming state of each of the 8 partitions
ZONE-STATUS$	S	Serial signal containing the state of each of the 250 available zones. Should be connected to the GE Zone Feedback Decoder module for further processing.
ITI-TX$	S	Serial signal to be routed to a 2-way RS232 port.

.UPZ FILE USED FOR TESTING:	5.12.65x.upz
COMPILER USED FOR TESTING:	SimplWindows Version 2.00.25
SAMPLE PROGRAM:	ITI Advent Demo Program
REVISION HISTORY:	v2 - Make changes to accommodate ITI's new protocol which includes checksums on all commands, as well as necessary acks and naks. v3 - Changed ITI processor module. Will not resend keypad text if identical, will look for either partition number or area number for keypad display, will not do broadcasts of keypad text anymore.