SIMPLWINDOWS NAME: Gentner XAP400 Crosspoint Attenuation

CATEGORY: Conferencing

VERSION: 1.0

SUMMARY: Allows the attenuation of any crosspoint to be adjusted/monitored

GENERAL NOTES: The commands used for the XAP400 mixer are similar to the commands used for the Gentner AP800/AP400. Therefore the same modules developed for the XAP400 may work on other (past and future) Gentner products. To allow for this flexibility of use, you must specify which Gentner model is being controlled using the TYPE-ID-ASCII parameter field. Currently valid entries are a single digit from 1 to 7 with no suffix as shown below:

- For XAP400, use 7
- For XAP800, use 5
- For PSR1212, use 4
- For AP400, use 3
- For AP10, use 2
- For AP800, use 1

Multiple devices can be connected to the Gentner bus and controlled from a single RS232 port. Therefore, it is also necessary to enter the Unit ID of the device being controlled. This should be entered in the UNIT-ID-ASCII parameter field as a single digit number from 0-8 with no suffix.

This module allows the attenuation of any crosspoint on the Gentner to be adjusted and monitored. You must first select a source using the SOURCE-* inputs, and a destination using the DEST-* inputs. After making these selections, you can pulse the POLL input to request the current level of the crosspoint. You can then use the VOLUME-UP/DOWN/SLIDER inputs to adjust the setting.

Note that some crosspoint combinations are not valid, such as Process A to Process A. This module does not perform any error checking to be sure that a valid crosspoint was selected.

This module should be used in conjunction with the Gentner XAP800/XAP400/PSR1212 Feedback Processor Module to monitor the state of the crosspoint attenuation. A properly constructed program would consist of a single Gentner XAP800/XAP400/PSR1212 Feedback Processor Module receiving information from the com port. The output of this module would be connected to the FROM-GENTNER-PROCESSOR$ inputs of as many other XAP800/XAP400/PSR1212 modules are in the program. The Processor module will reformat the data into the format that the remaining Gentner modules are programmed for.

CRESTRON HARDWARE REQUIRED: CNXCOM,
ST-COM

SETUP OF CRESTRON HARDWARE: Baud Rate -38400
Parity - None
Data Bits - 8
Stop Bits - 1

RTS and CTS Handshaking should be enabled to insure no data is lost.

VENDOR FIRMWARE:	PSR1212 - 1.0.3 XAP-800 - 1.1.0 XAP400 - 1.0.1
VENDOR SETUP:	Flow control should be set to "on". The baud rate should be set to 38400.
CABLE NUMBER:	CNSP-141

CONTROL:

SOURCE-*	D	Pulse to select the source of the crosspoint
DEST-*	D	Pulse to select the destination of the crosspoint
VOLUME-UP/DOWN	D	Press and hold to ramp the attenuation up or down
VOLUME-SLIDER	A	Can be connected to an analog input from a touchpanel to allow control from a slider object
POLL	D	Pulse to poll for the current attenuation setting
TYPE-ID-ASCII	P	Enter 4 for PSR1212, 5 for XAP800, 7 for XAP400
UNIT-ID-ASCII	P	Enter the unit number of the XAP800/XAP400/PSR1212. Should be a number from 0-8

FEEDBACK:

VOLUME-BAR	A	Indicates the relative level of the crosspoint attenuation. Should be routed to a bargraph
VOLUME-TEXT$	S	Indicates the attenuation in dB format. Should be routed to an indirect text field
To_Device$	S	Serial signal to be routed to a 2-way RS232 port

OPS USED FOR TESTING:	1.014.cuz, 5.12.26.upz
COMPILER USED FOR TESTING:	SimplWindows Ver 2.02.11
SAMPLE PROGRAM:	Gentner XAP400 Demo Program
REVISION HISTORY:	None