

SIMPLWINDOWS NAME: Gentner XAP400 Dialing
CATEGORY: Conferencing
VERSION: 1.0
SUMMARY: Gentner XAP400 functions including dialing, hook flash, auto-answer, auto-disconnect.

GENERAL NOTES: The module uses real feedback from the Gentner unit for hook status, auto answer status, auto-disconnect status, and RX boost level. They should be updated automatically whenever any parameter changes on the Gentner. If it is desired to update the status any other time, the POLL input could be pulsed. This will request the status of all parameters.

In normal use, the phone line will be on hook (hung up). A number will be dialed on the keypad, and it will be displayed in the display field. When DIAL is pressed, the phone line will be taken off hook, and the currently displayed number will be dialed. Any additional digits entered after the phone line is off hook will be sent out immediately, and will not be displayed on the touch panel. This is primarily for voice mail and paging systems. The maximum number of characters that can be entered for the phone number is 40. This is a function of the XAP400, not a Crestron limitation.

The commands used for the XAP800/XAP400/PSR1212 mixer are similar to the commands used for the Gentner AP800/AP400. Therefore the same modules developed for the XAP800/XAP400/PSR1212 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.

CRESTRON HARDWARE REQUIRED: CNCOMH-2
ST-COM
CNXCOM

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

VENDOR FIRMWARE: 1.0.1

VENDOR SETUP: Serial mode should be set to "Text". This is the default.

CABLE NUMBER: CNSP-141

CONTROL:

AUTO-ANS-*	D	Set the state of Auto Answer
AUTO-DISCONNECT-*	D	Set the state of Auto Disconnect
ON-HOOK	D	Place phone line on hook (hang up)
OFF-HOOK	D	Take phone line off hook (pickup)
FLASH	D	Momentary interruption to phone line connection
NULL-PHONE-LINE	D	Sends a short noise burst down the phone line and forces the XAP400 to adapt
HOOK-DURATION- *MS	D	Sets flash hook duration to the time specified
RX-BOOST-ENABLE	D	Pulse to enable receive boost at the level specified with RX-BOOST-LEVEL
RX-BOOST-DI SABLE	D	Pulse to disable receive boost
RX-BOOST-LEVEL- *DB	D	Pulse to set the desired level of the receive boost function
KEYPAD-0-9, *, #	D	Allow the entry of standard touch tone digits
KEYPAD A-D	D	Allow the entry of additional touch Tone digits
KEYPAD-PAUSE	D	Insert a pause in the phone number to be dialed. This will be represented as a ,
KEYPAD-CLEAR	D	Clear the phone number currently displayed
KEYPAD-BACKSPACE	D	Backspace one digit
DIAL	D	Dial the phone number currently displayed
REDIAL	D	Redials the last number dialed
POLL	D	Used if it is desired to update the state of the Crestron to match the XAP400. Updates should happen automatically, so this can usually be defined as 0
FROM-GENTNER- PROCESSOR\$	S	Must be routed from the output of the Gentner XAP800/PSR1212 Feedback Processor module
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
LENGTH<41D	P	Determines the maximum number of digits that can be entered in the display field. This number can be between 1d and 40d. The XAP400 does not support dialing numbers longer than 40 digits.

FEEDBACK:

AUTO-ANS- *-FB	D	Real feedback indicating the state of auto answer
AUTO-DISCONNECT- *-FB	D	Real feedback indicating the state of auto disconnect
ON-HOOK-FB	D	Real feedback indicating that the phone line is on hook (hung up)
OFF-HOOK-FB	D	Real feedback indicating that the phone line is off hook
HOOK-DURATION- *MS-FB	D	Feedback indicating the current flash hook duration
RX-BOOST-ENABLE- FB	D	Real feedback indicating that receive boost is active
RX-BOOST-DI SABLE- FB	D	Real feedback indicating that receive boost is inactive

RX-BOOST-LEVEL-FB	D	Real feedback indicating the level of the receive boost function
PHONE-NUMBER\$	S	Serial data string containing the phone number entered. Should be routed to a touchpanel serial field
RING	D	One second pulse whenever a ring is detected on the phone line
To_Device\$	S	Serial data string to be routed to a CNCOMH-2, ST-COM, or CNXCOM

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