

SIMPLWINDOWS NAME: Gentner XAP TH1
CATEGORY: Conferencing
VERSION: 1.0
SUMMARY: Gentner XAP TH1 functions including dialing, presets, mute and privacy
GENERAL NOTES: The module uses real feedback from the Gentner unit for hook status, auto answer status, mute status, privacy status, firmware version number and hook duration status. 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 XAPTH1, not a Crestron limitation.

CRESTRON HARDWARE REQUIRED: CNXCOM, ST-COM

SETUP OF CRESTRON HARDWARE: Tested and verified at the following settings:

Baud Rate -9600
Parity - None
Data Bits - 8
Stop Bits - 1

VENDOR FIRMWARE: 1.00

VENDOR SETUP: Correct operation was verified when the following RS232 settings were used:

Baud Rate - 9600
Enable Modem - Off
Flow control - Off

CABLE NUMBER: CNSP-121

CONTROL:

AUTO-ANS-ON	D	Turn on auto answer
AUTO-ANS-OFF	D	Turn off auto answer
MUTE-ON	D	Mute incoming audio (room volume)
MUTE-OFF	D	Unmute incoming audio (room volume)
PRIVACY-ON	D	Mute outgoing audio
PRIVACY-OFF	D	Unmute outgoing audio
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 XAPTH1 to adapt

HOOK-DURATION-50MS	D	Sets flash hook duration to 50ms
HOOK-DURATION-90MS	D	Sets flash hook duration to 90ms
HOOK-DURATION-100MS	D	Sets flash hook duration to 100ms
HOOK-DURATION-110MS	D	Sets flash hook duration to 110ms
HOOK-DURATION-250MS	D	Sets flash hook duration to 250ms
HOOK-DURATION-300MS	D	Sets flash hook duration to 300ms
HOOK-DURATION-400MS	D	Sets flash hook duration to 400ms
HOOK-DURATION-500MS	D	Sets flash hook duration to 500ms
HOOK-DURATION-600MS	D	Sets flash hook duration to 600ms
HOOK-DURATION-700MS	D	Sets flash hook duration to 700ms
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
PRESET-1-10	D	Store/recall up to 10 speed dial preset numbers. If a preset is pressed while PRESET-STORE-FB is low, the preset number will be recalled. If pressed while PRESET-STORE-FB is high, the number displayed will be stored into the preset
PRESET-STORE	D	To store a preset, enter the number on the keypad, press PRESET-STORE, and then press the preset number.
POLL	D	Used if it is desired to update the state of the Crestron to match the XAPTH1. Updates should happen automatically, so this can usually be defined as 0
From_Device\$	S	Serial data string to be routed from a CNCOMH-2, ST-COM, or CNXCOM
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 TH1 does not support dialing numbers longer than 40 digits.

FEEDBACK:

PHONE-NUMBER\$	S	Serial data string containing the phone number entered. Should be routed to a touch panel serial field
AUTO-ANS-ON-FB	D	Real feedback indicating that auto answer is on
AUTO-ANS-OFF-FB	D	Real feedback indicating that auto answer is off
MUTE-ON-FB	D	Real feedback indicating that mute is on
MUTE-OFF-FB	D	Real feedback indicating that mute is off
PRIVACY-ON-FB	D	Real feedback indicating that privacy is on

PRIVACY-OFF-FB	D	Real feedback indicating that privacy is off
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-50MS-FB	D	Real feedback indicating the current flash hook duration is 50ms
HOOK-DURATION-90MS-FB	D	Real feedback indicating the current flash hook duration is 90ms
HOOK-DURATION-100MS-FB	D	Real feedback indicating the current flash hook duration is 100ms
HOOK-DURATION-110MS-FB	D	Real feedback indicating the current flash hook duration is 100ms
HOOK-DURATION-250MS-FB	D	Real feedback indicating the current flash hook duration is 250ms
HOOK-DURATION-300MS-FB	D	Real feedback indicating the current flash hook duration is 300ms
HOOK-DURATION-400MS-FB	D	Real feedback indicating the current flash hook duration is 400ms
HOOK-DURATION-500MS-FB	D	Real feedback indicating the current flash hook duration is 500ms
HOOK-DURATION-600MS-FB	D	Real feedback indicating the current flash hook duration is 600ms
HOOK-DURATION-700MS-FB	D	Real feedback indicating the current flash hook duration is 700ms
PRESET-1-10-FB	D	Indicates which preset was last chosen
PRESET-STORE-FB	D	Indicates that store mode is active. Will time out after 5 seconds if a preset isn't pressed first
RING	D	One second pulse whenever a ring is detected on the phone line
VERSION\$	S	Serial data string indicating the firmware version as reported back from the XAP TH1
To_Device\$	S	Serial data string to be routed to a CNXCOM, or ST-COM

OPS USED FOR TESTING: 5.12.26x
COMPILER USED FOR TESTING: SimplWindows Version 1.61.12
SAMPLE PROGRAM: Gentner XAP TH1 demo
REVISION HISTORY: None