Partner: Cisco
Model: SX80
Device Type: Codec

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Cisco Touch 10 Room Control Toggle Button v1.0
CATEGORY:	Codec
VERSION:	1.0
SUMMARY:	This module works with the toggle button widget in the Cisco Touch 10 Room Control.
GENERAL NOTES:	The Cisco Touch 10 Room Control module suite allows the Cisco Touch 10 touch screen used with Cisco codecs to control other devices through the Crestron processor. The Cisco Touch 10 is programmed by going to the web page of the Cisco codec and selecting Integration-> In-Room Control Editor. The controls added will be assigned a widget Id either automatically or be the person editing the controls. Those widget Ids will be needed for the Crestron modules to work. This module was tested with a Cisco SX80. It will also work with the following Cisco codecs: • MX200 G2 • MX300 G2 • MX700 • MX800 • SX10 • SX20 The processor module will check to see how many control modules are connected when the program starts up. The check is done by checking for defined signals. The module will then send a message to each output at start up to determine which outputs have control modules connected. Therefore, you may skip toControlModules[*]. NOTE: ALL CONTROL MODULES MUST BE LOCATED IN THE SAME PROGRAM AS THE CONTROL PROCESSOR MODULE. IF COMNTROLS ARE REQUIRED IN OTHER PROGRAM SLOTS OR PROCESSORS, THE CONTROL AND FEEDBACK SIGNALS SHOULD BE PASSED. DO NOT PASS THE toControlModules[*] or fromControlModules SIGNALS. The processor will need to ask each connected module for its widget id. This is done when the initialize input is pulsed on the processor module. The processor will also register with the codec for the proper event feedback. When each module is initialized, it will send its initial value to the codec. Those commands to the codec are sent to the processor module. The processor module will then forward the commands to the codec with no further delays. The control modules will not send any values until they have been initialized. The only exception to that rule is the Cisco Touch 10 Room Control Text Box module. That module does not get any feedback from the Cisco so it does not need to be initialized. NOTE: THERE SHOULD ONLY BE ONE WIDGET CONTROL MODULE PER toControlModules[*] OUTPUT. PUTTING MORE THAN WIDGET CONTROL MODULE ON AN OUTPUT WILL RESULT IN THE CONTROL MODULES CONNECTED TO THE OUTPUT SHOWING AN ERROR. This module will provide two states, on and off, from a toggle button widget on the Cisco Touch 10 screen. It will also provide feedback to the Cisco Touch 10 screen. This module is for 3-series and later processors only.

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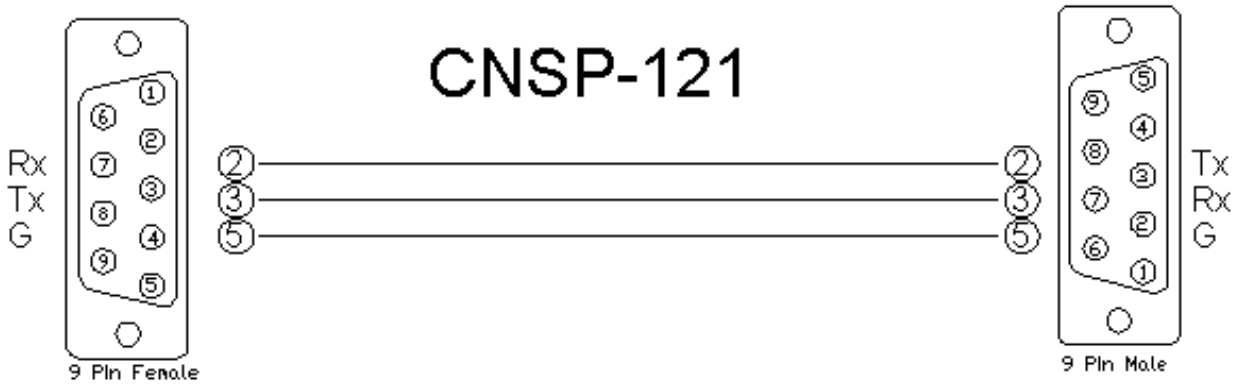
CRESTRON HARDWARE REQUIRED:	C2I-*-COM, C2I-*ENET-*
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 115200 Parity: None Data Bits: 8 Stop Bits: 1 SSH
VENDOR FIRMWARE:	8.1.x
VENDOR SETUP:	The Cisco Touch 10 will need to be programmed to have room control widgets on it. That is done by going to the web page of the Cisco codec and selecting Integration -> In-Room Control Editor. Contact Cisco for more information on how to use the In-Room Control Editor. The Crestron demo program includes a room control file that was used for testing. You may load that file to the Cisco Touch 10 using the In-Room Control Editor.
CABLE DIAGRAM:	RS232: MC3: CNSP-121 All Other 3-Series: Crestron Cisco Pin: TX Pin: 3 Pin: RX Pin: 2 Pin: GND Pin: 5



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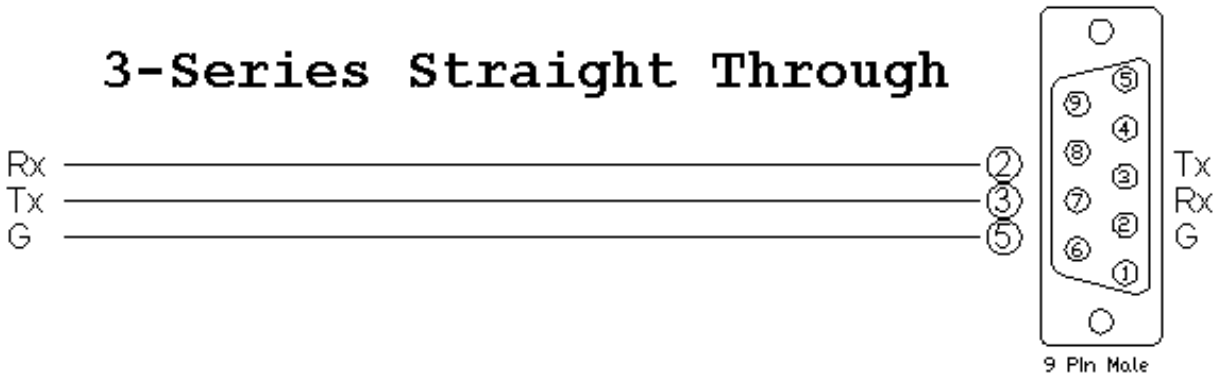

CONTROL:

buttonStateOn	D	Signal to indicate the current state of the device being controlled in the Crestron is on.
buttonStateOff	D	Signal to indicate the current state of the device being controlled in the Crestron is off.
fromProcessorModule	S	Serial signal to be routed form the toControlModules output of the Cisco Touch 10 Room Control Processor module.

FEEDBACK:

initialized	D	High to indicate that the module is initialized.
setButtonOn/setButtonOff	D	Button presses from the Cisco for the on and off. These will pulse for 0.1 seconds.
error	D	High to indicate that there was an error during the initialization process. The error will be listed on the errorMessage output of the module.
errorMessage	S	Serial signal indicating the description of the initialization error, if there is an error.
toProcessorModule	S	Serial signals to be routed to the fromControlModules input on the Cisco Touch 10 Room Control Processor module.

PARAMETER:

paramWidgetId	S	Enter the widget id from the Cisco In-Room Control Editor software. This is case sensitive.

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TESTING:

OPS USED FOR TESTING:	CP3: 1.501.0013
SIMPL WINDOWS USED FOR TESTING:	4.03.20
DEVICE DB USED FOR TESTING:	75.05.001.00
CRES DB USED FOR TESTING:	56.05.001.00
SYMBOL LIBRARY USED FOR TESTING:	994
SAMPLE PROGRAM:	Cisco Touch 10 Room Controls v1.0 Demo
REVISION HISTORY:	v1.0 – Initial Release

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