SIMPLWINDOWS NAME:	Crown USM-810 Full Control
CATEGORY:	Mixer
VERSION:	1.0
SUMMARY:	Controls all crosspoint levels, mutes, and presets
GENERAL NOTES:	This module will control a Crown USM-810 mixer. It allows for any crosspoint level to be adjusted. It also allows any output channel level to be adjusted or muted. In addition, it allows for any of 32 available presets to be recalled or stored. Storing a preset is a three step process: 1. Adjust the parameters as desired 2. Press the "Save" input..."Save_Fb" will go high 3. Press the preset number to save the configuration into Note that the address of the USM must be specified in the "Address(01-FA) parameter field. This should be a two digit hex number from 01 - FA. So for an address of 3, enter 03. Note that this module is designed to control a single mixer. If multiple USM-810's are being used, a separate module and com port should be used for each mixer. This module has a "Poll" input. When pulsed, this will cause a full poll for the levels of all crosspoints, the state of all mutes, and the current preset. It will take about 5 seconds to complete. While the poll is in progress, no other functions should be activated. If a level is adjusted while a poll is in progress, this may result in the level displayed on the Crestron system being out of synch with the actual level on the mixer. In general, the only times a poll should be necessary would be when the system is initially turned on, or after recalling a preset. While the system is being polled, the "Poll_Busy" output will be high. To allow for flexibility in programming, for each crosspoint, a single analog input is provided. This analog input could be connected to a slider on a touch panel, or it could be connected to an Analog Ramp symbol, or both. If it is desired to control multiple levels simultaneously, you can tie the same slider or Analog Ramp to multiple inputs on the module. This will result in multiple channels tracking each other. While the module is processing commands, the "Busy" output will be high.
CRESTRON HARDWARE REQUIRED:	ST-COM, CNXCOM
SETUP OF CRESTRON HARDWARE:	Baud Rate - 57600 Parity - None Data Bits - 8 Stop Bits - 1
VENDOR FIRMWARE:	None
VENDOR SETUP:	Make sure that the address and baud rate set on the Crown system match the setup of the Crestron system.
CABLE NUMBER:	CNSP-121

CONTROL:

PRESET_*	D	Pulse to save or recall a preset configuration
PRESET_SAVE	D	Pulse to put the module into preset save mode
***_LEVEL**	A	Controls the level of any crosspoint in the system
***_MUTE_ON/OFF/TOGGLE**	D	Pulse to activate/deactivate or toggle the state of mute
POLL	D	Pulse to initiate a full poll of the system
FROM_DEVICE$	S	Serial signal to be routed from a 2-way RS232 port
ADDRESS(01-FA)	P	Address of the USM-810. Should be a 2-digit hex number with no suffix

FEEDBACK:

PRESET_*_FB	D	Indicates which preset was last selected
PRESET_SAVE_FB	D	High when the module is in preset save mode
***_MUTE_ON/OFF/TOG_FB**	D	Indicates when mute is on/off
BUSY	D	High while the module is processing commands
POLL_BUSY	D	High while a poll is in progress
TO_DEVICE$	S	Serial signal to be routed to a 2-way RS232 port

OPS USED FOR TESTING:	5.12.26x.upz
COMPILER USED FOR TESTING:	SimplWindows Version 1.61.12
SAMPLE PROGRAM:	Crown USM-810 Full Control Demo
REVISION HISTORY:	None