SIMPLWINDOWS NAME:	Lectrosonics MM8 Standard Controls
CATEGORY:	Mixer
VERSION:	1.1
SUMMARY:	Controls all standard functions on Lectrosonics MM8 Mixer
GENERAL NOTES:	This module will control a LectrosonicsMM8 Matrix Mixer, using RS232. This device operates on the Lectrosonics LecNet bus. Multiple Lectrosonics devices can be placed on this bus, including the AV62, MM8. AM8, AM16. And TH2. Each device on the LecNet bus must have a unique address. This address must be entered into the module at the ADDRESS input, using an external INIT symbol. Valid address values are 128-254 decimal, or 80-FE Hex. Using this addressing scheme, multiple Lectrosonics devices can be controlled by using only one Crestron Com port. This module has a POLL input. When activated, this will cause all of the parameters of the device to be queried, and their states will be updated at the output of the module. This process may take several seconds. The output POLL-BUSY will be high while the poll is in progress. When the poll is completed, the output POLL-DONE-PULSE will be pulsed for .1 second. If multiple Lectrosonics modules were being used in a program, the POLL-DONE-PULSE output of one module could be connected to the POLL input of the next module. This would allow all Lectrosonics devices to be polled in a sequential manner. All Lectrosonics devices should be polled on startup of the Crestron system, so that the two systems are in sync. The module will not allow POLL to be reactivated while a poll is in progress. After the initial poll on startup of the system, it should not be necessary to poll the Lectrosonics devices any more, as long as no adjustments are made to the front panel controls of the Lectrosonics devices. When using this module, you should be careful not to activate multiple functions simultaneously. Allow at least .1 second between successive functions.
CRESTRON HARDWARE REQUIRED:	ST-COM, CNXCOM
SETUP OF CRESTRON HARDWARE:	Baud Rate - 9600 Parity - None Data Bits - 8 Stop Bits - 1
VENDOR FIRMWARE:	None
VENDOR SETUP:	The address of the Lectrosonics device must be set to match the address programmed in the Crestron system. This can be done using the Lectrosonics LecNet PC software.
CABLE NUMBER:	Use the cable included with the Lectrosonics device to connect the Crestron system to the LecNet bus

CONTROL:

ADDRESS	D	Address of the MM8. This should come from an INIT symbol.
MODE-LOCAL	D	Place the MM8 into local mode. This will allow the front panel buttons to be used

MODE-REMOTE	D	Place the MM8 into remote mode. This will disable the front panel buttons
MEMORY-1-9	D	Used to select any of the 1-9 memory presets.
VOL-UP-OUT-1-8	D	Ramp up the volume of the selected output
VOL-DN-OUT-1-8	D	Ramp down the volume of the selected output
MUTE-OUTPUT-1-8-ON	D	Mute the appropriate output
MUTE-OUTPUT-1-8-OFF	D	Unmute the appropriate output
MUTE-OUTPUT-1-8-TOG	D	Toggle the state of mute for the appropriate output
POLL	D	Cause the unit to be polled for status. This should only be necessary on startup of the system POLL-BUSY will be high while poll is in progress
LECNET-RX$	S	Serial data string to be routed from a 2-way RS232 port

FEEDBACK:

MODE-LOCAL-FB	D	Indicates that the unit is in local mode
MODE-REMOTE-FB	D	Indicates that the unit is in remote mode
MEMORY-1-9-FB	D	Indicates the current memory preset selected
LEVEL-OUTPUT-1-8	D	Indicates the relative level of the respective output
MUTE-OUTPUT-1-8-FB	D	Indicates that the respective output is muted
POLL-BUSY	D	High while poll is in progress
POLL-DONE-PULSE	D	This output will pulse for .1 second when the poll is complete
LECNET-TX$	S	Serial data signal to be routed to a 2-way RS232 port

OPS USED FOR TESTING:	3.18.06, 5.01.29x
COMPILER USED FOR TESTING:	SimplWindows Version 1.21.04
SAMPLE PROGRAM:	LECTTSTC
REVISION HISTORY:	LECT-MMA - Original LECT-MMB - Lock out poll button while poll is in progress.