

SIMPLWINDOWS NAME: Mark Levinson No40
CATEGORY: Receiver/Processor
VERSION: 1.0
SUMMARY: This module provides full control and real feedback for the Madrigal Mark Levinson No40.
GENERAL NOTES: This module provides control for the Mark Levinson No40. It also provides real feedback.

NOTE: This module controls the main zone or one of the 4 remote zones. In order to control the remote zones remote cards must be installed in the No40. Also, not all controls are available for the remote zones.

CRESTRON HARDWARE REQUIRED: CNXCOM-2
ST-COM
CNXCOM
C2COM

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

VENDOR FIRMWARE: Video Box v1.10
Audio Box v1.11

VENDOR SETUP: This module was written with the volume display set to Absolute. It was also written with the RS232 feedback set to Automatic. To control the volume for the remote zone, the volume controls must be enabled.

TO SET THE VOLUME DISPLAY TO ABSOLUTE:

1. Press MENU SELECT. Press ENTER.
2. Scroll to User Options. Press ENTER.
3. Scroll to Volume Options. Press ENTER.
4. Scroll to Display. Press ENTER.
5. Scroll to Absolute. Press ENTER.
6. Press MENU SELECT until you have exited the set up.

TO SET THE RS232 UPDATES TO AUTOMATIC:

1. Press MENU SELECT. Press ENTER.
2. Scroll to User Options. Press ENTER.
3. Scroll to Control Options. Press ENTER.
4. Scroll to RS232 Updates. Press ENTER.
5. Scroll to Automatic. Press ENTER.
6. Press MENU SELECT until you have exited the set up.

TO ENABLE VOLUME CONTROL FOR A REMOTE ZONE:

1. Press MENU SELECT. Press ENTER.
2. Scroll to Output Zones. Press ENTER.
3. Scroll to the zone you want to set up. Press ENTER.
4. Scroll to Audio Output. Press ENTER.
5. Scroll to Variable. Press ENTER.
6. Press MENU SELECT until you have exited the set up.

CABLE NUMBER: CNSP-614

CONTROL:

Main_Zone	D	Pulse to select the Main Zone to be controlled.
Remote_Zone_*	D	Pulse to select one of the remote zones to be controlled.
Power_On/Off/Toggle	D	Pulse to turn power on or off.
Input_*	D	Pulse to select the input.
Next/Previous_Input	D	Pulse to step through the inputs.
Profile_*	D	Pulse to select the profile.
Next_Profile	D	Pulse to step to the next profile.
Stereo_Mode	D	Pulse to select the "Stereo" surround mode.
Stereo_Surround_Mode	D	Pulse to select the "Stereo Surround" surround mode.
Mono_Mode	D	Pulse to select the "Mono" surround mode.
Mono_Fronts_Mode	D	Pulse to select the "Mono Fronts" surround mode.
Mono_Surround_Mode	D	Pulse to select the "Mono Surround" surround mode.
ProLogic_Mode	D	Pulse to select the "ProLogic" surround mode.
ProLogic_+THX_Mode	D	Pulse to select the "ProLogic + THX" surround mode.
ProLogic_2_Movie_Mode	D	Pulse to select the "ProLogic II Movie" surround mode.
ProLogic_2_Movie_+THX_Mode	D	Pulse to select the "ProLogic II Movie + THX" surround mode.
ProLogic_2_Music_Mode	D	Pulse to select the "ProLogic II Music" surround mode.
Multichannel_Mode	D	Pulse to select the "Multichannel" surround mode.
Multichannel_+THX_Mode	D	Pulse to select the "Multichannel + THX" surround mode.
Down_Mix_Multichannel_Mode	D	Pulse to select the "Down Mix Multichannel" surround mode.
Next/Previous_Surround_Mode	D	Pulse to step through the surround modes.
THX_On/Off/Toggle	D	Pulse to turn THX on or off.
Volume_Up/Down	D	Push and hold to adjust volume.
Volume_Mute_On/Off_Toggle	D	Pulse to turn the volume mute on or off.
Compression_Minimum	D	Pulse to select minimum compression.
Compression_Medium	D	Pulse to select medium compression.
Compression_Maximum	D	Pulse to select maximum compression.
Less_Compression	D	Push and hold to decrease compression.
More_Compression	D	Push and hold to increase compression.

Compression_Off	D	Pulse to turn compression off.
Subwoofer_On/Off	D	Pulse to turn the subwoofer on or off.
Display_Mode	D	Pulse to turn the display on or off.
Preview	D	Pulse to turn on the preview menu on or off.
Menu	D	Pulse to turn the menu on.
Menu_Up/Down/Left/Right	D	Pulse to move through the menus.
Menu_Enter	D	Pulse to select the menu item.
Return_Arrow	D	Pulse to go back one level in the menu.
Exit_Menu	D	Pulse to exit the menu.
Set_Up_Menu	D	Pulse to turn the setup menu on.
Function_*	D	Pulse to activate a function programmed in the No40.
Recall	D	Pulse to recall the factory defaults.
Listening_Position_*	D	Pulse to select the listening position.
Trigger_*_On/Off	D	Pulse to turn the trigger on or off.
From_Device\$	S	Serial data string to be routed to a 2-way RS232 port.

PARAMETER DESCRIPTIONS:

Box ID==34	P	Enter hex equivalent of the units ID number. This should be entered without the h after it. The default is 4(i.e. 34).
Max Volume(No Decimal)==800d	P	Enter the max volume level. This should be entered without the decimal point so that max of 80.0 becomes 800d. Default is 800d.
Max Volume +1==801d	P	Enter the max volume level (entered above) + 1. This should be entered without the decimal point so that max of 80.1 becomes 801d. Default is 801d.

FEEDBACK:

Main_Zone_Fb	D	High indicates the main zone is being controlled.
Remote_Zone_*_Fb	D	High to indicate which remote zone is being controlled.
Power_On/Off_Fb	D	High to indicate the power status of the No40.
Input_*_Fb	D	High to indicate the currently selected input for the zone being controlled.
Input_Name\$	S	Serial signal indicating the name of the currently selected input for the zone.
		High to indicate the currently

Profile_*_Fb	D	selected profile for the zone being controlled.
Profile_Name\$	S	Serial signal indicating the name of the currently selected profile for the zone.
Stereo_Mode_Fb	D	High to indicate the "Stereo" surround mode is selected.
Stereo_Surround_Mode_Fb	D	High to indicate the "Stereo Surround" surround mode is selected.
Mono_Mode_Fb	D	High to indicate the "Mono" surround mode is selected.
Mono_Fronts_Mode_Fb	D	High to indicate the "Mono Fronts" surround mode is selected.
Mono_Surround_Mode_Fb	D	High to indicate the "Mono Surround" surround mode is selected.
ProLogic_Mode_Fb	D	High to indicate the "ProLogic" surround mode is selected.
ProLogic_+THX_Mode_Fb	D	High to indicate the "ProLogic + THX" surround mode is selected.
ProLogic_2_Movie_Mode_Fb	D	High to indicate the "ProLogic 2 Movie" surround mode is selected.
ProLogic_2_Movie_+THX_Mode_Fb	D	High to indicate the "ProLogic 2 Movie + THX" surround mode is selected.
ProLogic_2_Music_Mode_Fb	D	High to indicate the "ProLogic 2 Music" surround mode is selected.
Multichannel_Mode_Fb	D	High to indicate the "Multichannel" surround mode is selected.
Multichannel_+THX_Mode_Fb	D	High to indicate the "Multichannel + THX" surround mode is selected.
Down_Mix_Multichannel_Mode_Fb	D	High to indicate the "Down Mix Multichannel" surround mode is selected.
Surround_Mode_Name\$	S	Serial signal indicating the name of the currently selected surround mode for the zone.
Volume_Level	A	Volume level value to be routed to a bargraph on a touch panel.
Listening_Position_*_Fb	D	High to indicate the currently selected listening position for the zone being controlled.
Position_Name\$	S	Serial signal indicating the name of the currently selected listening position for the zone.
To_Device\$	S	Serial data string to be routed to a 2-way RS232 port.

.UPZ FILE USED FOR TESTING: Version 5.12.63x
COMPILER USED FOR TESTING: SimplWindows Ver 2.02.11
SAMPLE PROGRAM: Mark Levinson No40 Demo.smw
REVISION HISTORY: None