

SIMPLWINDOWS NAME: mBox Media Player Interface v2

CATEGORY: TRANSPORT DECKS

VERSION: 2.0

SUMMARY: Allows selection/playback/transport control of media, stored on a PC which has mbox installed

GENERAL NOTES: This module allows a Crestron control system to access media stored on a PC which has mbox software installed.

This module allows you to select media in three ways:

1. You can select a playlist from the Quick Pick Playlist list. This list contains up to twenty playlists which were previously stored on the PC. Before selecting a playlist, you must pulse the Refresh_Playlists input. All twenty playlist titles will then be available.
2. You can select a tuner preset from the Tuner Preset list. This list contains up to twenty presets which were previously stored on the PC. Before selecting a preset, you must pulse the Refresh_Tuner_Presets input. All twenty presets will then be available.
3. You can scroll through the available media using the mbox navigation interface. This interface provides up to twenty lines of variable text fields. These lines will display different categories to choose from (such as artist, genre, etc). After selecting a category, a list of selections within that category will be displayed, and so on. This allows the same buttons to be used for the entire navigation process.

This module will provide true status indicating the album, artist, and track of the media currently playing. In addition it will indicate the current transport state (play/stop/pause) random mode, and repeat mode.

This module was tested using mbox software version 1.6. The following commands have been included in this module, but have not been tested because they were not available in version 1.6. It is expected that they will be available in version 2.0 of mbox software:

- Page_Back
- Refresh_Tuner_Presets
- Select_Tuner_Preset_*
- Tuner_Preset_*\$

CRESTRON HARDWARE REQUIRED: X-Generation and 2-Series control systems

SETUP OF CRESTRON HARDWARE: **For RS232:**
Baud Rate - 9600
Parity - None
Data Bits - 8
Stop Bits - 1

For TCP/IP:
Use a TCP/IP Client Object
Port Number selectable in mbox setup. Tested at port 620d
Note - The IP Table in the Crestron system must be set to point to the PC running the mbox software

VENDOR FIRMWARE: Tested with version 1.6

- VENDOR SETUP:**
1. Install mbox on the PC as per mbox instructions
 2. Run mbox
 3. Go to the Communications tab
 4. Make sure Enable Serial or Enable Netowrk is checked as appropriate
 5. Select "Serial" and verify that the settings match the settings of the com port on the Crestron system. Or select network and verify that the port number selected is the port number being used by the Crestron system.
- CABLE NUMBER:** For RS232 - CNSP-124

CONTROL:

Select_New_Media	D	Stops playback and allows new media to be selected
Refresh	D	Refreshes all text displays
Transport_Controls	D	Allows transport control - play/stop/pause/prev/next
Play_Mode_*	D	Allows selection of random and repeat modes
Page_First/Prev/Next/Last	D	Scrolling functions used with the mbox navigator
Goto_A/E/J/O/T/Z	D	Quick keys to go to certain letters in the mbox navigator
Key_1-20	D	Selection keys for the mbox navigator
Volume_Up/Down/Mute	D	Allows volume to be ramped up/down and muted
Refresh_Playlists	D	Re-reads the current playlists available and displays them at the Quick_Playlist_\$ outputs
Select_Playlist_1-20	D	Allows any of the currently displayed playlists to be selected
From_Device\$	S	Serial signal to be routed from a 2-way RS232 port

FEEDBACK:

Current_Album\$	S	Indicates the current album playing
Current_Artist\$	S	Indicates the current artist playing
Current_Title\$	S	Indicates the current track playing
Play/Stop/Pause_Fb	D	True feedback indicating the current transport state
Play_Mode_*_Fb	D	True feedback indicating the current random/repeat mode
Display_1-20\$	S	Variable text fields used for the mbox navigator
Volume_Bar	A	Indicates the current volume level
Quick_Playlist_1-20\$	S	Indicates the titles of the twenty quick pick playlists available
mbox_Closing	D	Pulses when the mbox application is closed on the PC
To_Device\$	S	Serial signal to be routed to a 2-way RS232 port

OPS USED FOR TESTING: v3.006.cuz
COMPILER USED FOR TESTING: SimplWindows Ver 2.03.18
SAMPLE PROGRAM: mbox Demo v2
REVISION HISTORY: v2 - Added search for all letters
Added Page_back
Added Tuner Preset functionality
Tested TCP/IP control