

# InfuseboX

## Fusion Research Module V1.00

### **\*\*IMPORTANT\*\***

1. The DNS must be set up in the Crestron processor.
2. The Crestron processor must be able to connect to the internet on boot to verify MAC address registration.
3. The module will run for 3 days before needing to be verified. If MAC address is not verified the module will no longer run at the end of the 3 days until MAC address is verified.
4. Requires Crestron CUZ4.0 or later and an Ethernet enabled processor.

**COVERART** – If the touch panel is not loading the cover art after a processor restart, the touch panel may need to be rebooted

For questions please email InfuseboX tech support at [Support@infusebox.com](mailto:Support@infusebox.com)

Information	
Simple Windows Name	Fusion Research Module
Category	AV
Summary	Designed for 2 way communication with Fusion Research media servers
Supported Processors	2-Series Crestron Processors
Communication	TCP/IP with Fusion Research
SIMPL+ Modules Used	1. Fusion Submodule 2. Fusion Music Submodule

## Input Category 1: On Screen Display

<b>OSD_Coverart_View</b>	Pulse to switch on screen view to cover art view
<b>List_View</b>	Pulse to switch on screen view to list view
<b>Play</b>	Pulse to activate Play
<b>Stop</b>	Pulse to activate Stop
<b>Pause</b>	Pulse to activate Pause
<b>Play_Pause</b>	Pulse to activate Play_Pause
<b>Record</b>	Pulse to activate Record
<b>Fast_Forward_More</b>	Pulse to activate Fast_Forward_More
<b>Fast_Forward_Less</b>	Pulse to activate Fast_Forward_Less
<b>Slow_Fast_Forward_More</b>	Pulse to activate Slow_Fast_Forward_More
<b>Slow_Fast_Forward_Less</b>	Pulse to activate Slow_Fast_Forward_Less
<b>Fast_Rewind_More</b>	Pulse to activate Fast_Rewind_More
<b>Fast_Rewind_Less</b>	Pulse to activate Fast_Rewind_Less
<b>Slow_Rewind_More</b>	Pulse to activate Slow_Rewind_More
<b>Slow_Rewind_Less</b>	Pulse to activate Slow_Rewind_Less
<b>Frame_Advance</b>	Pulse to activate Frame_Advance
<b>Jump_to_Time</b>	Pulse to activate Jump_to_Time
<b>Title_Menu</b>	Pulse to activate Title_Menu
<b>Root_Menu</b>	Pulse to activate Root_Menu
<b>Chapter_Menu</b>	Pulse to activate Chapter_Menu
<b>Audio_Menu</b>	Pulse to activate Audio_Menu
<b>Angle_Menu</b>	Pulse to activate Angle_Menu
<b>Subpicture_Menu</b>	Pulse to activate Subpicture_Menu
<b>Home</b>	Pulse to activate Home
<b>End</b>	Pulse to activate End

<b>Page_Up</b>	Pulse to activate Page_Up
<b>Page_Down</b>	Pulse to activate Page_Down
<b>Move_Up</b>	Pulse to activate Move_Up
<b>Move_Down</b>	Pulse to activate Move_Down
<b>Move_Left</b>	Pulse to activate Move_Left
<b>Move_Right</b>	Pulse to activate Move_Right
<b>Select</b>	Pulse to activate Select
<b>Exit</b>	Pulse to activate Exit
<b>Return</b>	Pulse to activate Return
<b>Sort</b>	Pulse to activate Sort
<b>Back</b>	Pulse to activate Back
<b>Cancel</b>	Pulse to activate Cancel
<b>Zoom</b>	Pulse to activate Zoom
<b>Next_Chapter</b>	Pulse to activate Next_Chapter
<b>Previous_Chapter</b>	Pulse to activate Previous_Chapter
<b>Next_Title</b>	Pulse to activate Next_Title
<b>Previous_Title</b>	Pulse to activate Previous Title
<b>Next_Angle</b>	Pulse to activate Next_Angle
<b>Previous_Angle</b>	Pulse to activate Previous_Angle
<b>Closed_Caption_On</b>	Pulse to turn captions on
<b>Closed_Caption_Off</b>	Pulse to turn captions off
<b>Tray_Open</b>	Pulse to open player tray
<b>Tray_Close</b>	Pulse to close player tray
<b>Mode</b>	Pulse to toggle mode settings

<b>Rating_Limit_TV-Y</b>	Pulse to set viewable movies to a rating no higher than TV-Y
<b>Rating_Limit_TV-Y7</b>	Pulse to set viewable movies to a rating no higher than TV-Y7
<b>Rating_Limit_G</b>	Pulse to set viewable movies to a rating no higher than G
<b>Rating_Limit_PG</b>	Pulse to set viewable movies to a rating no higher than PG
<b>Rating_Limit_PG-13</b>	Pulse to set viewable movies to a rating no higher than PG-13
<b>Rating_Limit_TV-14</b>	Pulse to set viewable movies to a rating no higher than TV-14
<b>Rating_Limit_R</b>	Pulse to set viewable movies to a rating no higher than R
<b>Rating_Limit_TV-MA</b>	Pulse to set viewable movies to a rating no higher than TV-MA
<b>Rating_Limit_NC17</b>	Pulse to set viewable movies to a rating no higher than NC17
<b>Rating_Limit_NR</b>	Pulse to set viewable movies to a rating no higher than NR

## **Input Category 2: Movie\_Touch\_Panel\_Selection**

<b>Select_Movie_Art_View</b>	Pulse this signal when switching to Art View on the touch panel
<b>Select_Movie_List_View</b>	Pulse this signal when switching to list view on the touch panel
<b>Movie_Now_Playing_View</b>	Pulse this signal when switching to now playing view on the touch panel
<b>Play_Selected_Movie</b>	Pulse this signal to play the currently selected movie on the touch panel

## **Category 3: Movie\_List\_View**

<b>Movie_List_Next</b>	Pulse to list the next set of movies in list view on the touch panel
<b>Movie_List_Previous</b>	Pulse to list the previous set of movies in list view on the touch panel
<b>Movie_List_Details[10]</b>	Select to view details of the listed movies in list view(1 up to 10)

### Input Category 4: Movie\_Cover\_Art\_View

<b>Cover_Art_Next</b>	Pulse to list the next set of movies in cover art view on the touch panel
<b>Cover_Art_Previous</b>	Pulse to list the previous set of movies in cover art view on the touch panel
<b>Movie_Cover_Art_Details_Select_[10]</b>	Select to view details of the listed movies in cover art view (1 up to 10)

### Input Category 5: Movie\_TP\_Alpha\_Sort\_Bar

<b>TouchPanel_Alpha_Slider_Position</b>	Input from slider utilized to sort movie cover art and movie list items alphabetically on the touch panel (see example GUI for more details). The selected view (cover art or list in category 3) determines which will be sorted.
<b>TouchPanel_Alpha_Slider_Press</b>	Digital join associated with alpha slider to sort movie cover art and movie list items alphabetically on the touch panel (see example GUI for more details)

### Input Category 6: Movie\_TP

<b>Alpha_Sort_[#-Z]</b>	Pulse to sort Alpha Sort [#-Z] on the touch panel. The selected view (cover art or list in category 3) determines which will be sorted.
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## Input Category 5: Movie\_TP\_Alpha\_Sort\_Bar

<b>TouchPanel_Alpha_Slider_Position</b>	Input from slider utilized to sort movie cover art and movie list items alphabetically on the touch panel (see example GUI for more details). The selected view (cover art or list in category 3) determines which will be sorted.
<b>TouchPanel_Alpha_Slider_Press</b>	Digital join associated with alpha slider to sort movie cover art and movie list items alphabetically on the touch panel (see example GUI for more details)

## Input Category 6: On Screen Display

<b>Music_Zone_Control_Number</b>	Send decimal value [1-5] of the music zone that is to be controlled.
<b>Music_Select_Line[1-10]</b>	Pulse to select line from music feedback to navigate library
<b>Music_List_Up</b>	Pulse to get music previous set of music list items
<b>Music_List_Down</b>	Pulse to get next set of music list items
<b>Music_View_All_Artist</b>	Pulse to get list of artist
<b>Music_View_All_Albums</b>	Pulse to get list of albums
<b>Music_View_Genres</b>	Pulse to get list of genres
<b>Music_View_Playlist</b>	Pulse to get list of playlist
<b>Music_Next</b>	Pulse to go to next song
<b>Music_Previous</b>	Pulse to go to previous song
<b>Music_NavBack</b>	Pulse to navigate back on list
<b>Music_Play</b>	Pulse to play music
<b>Music_Pause</b>	Pulse to pause music
<b>Music_Stop</b>	Pulse to stop music

## Output Category 1: Movie\_Cover\_Art\_View\_URLs

<b>Cover_Art_URL_[1-10]</b>	URLS for movie cover art (used in cover art view)
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## Output Category 2: On Screen Display

<b>Movie_List_Title_[1-10]</b>	Titles for movie list (use in movie list view)
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## Output Category 3: Movie\_Details\_View\_Info

<b>Details_Cover_Art_URL</b>	URL of selected movie
<b>Movie_Title</b>	Title of selected movie
<b>Movie_Release_Date</b>	Release date of selected movie
<b>Movie_Running_Time</b>	Running time of selected movie
<b>Movie_Aspect_Ratio</b>	Aspect Ratio of selected movie
<b>Movie_Rating</b>	Rating of selected movie
<b>Movie_Genre</b>	Genre of selected movie
<b>Movie_Actors</b>	Actors of selected movie
<b>Movie_Directors</b>	Directors of selected movie
<b>Plot_Summery_Line_[1-10]</b>	Plot summery (10 serial outputs) for selected movie

## Output Category 4: Movie Now Playing Info

<b>Movie_Playing_Duration</b>	Decimal value of the length of the playing movie
<b>Movie_Playing_Position</b>	Time played of the playing movie
<b>Movie_Playing_Gauge_Position</b>	Analog value for gauge to show position of the playing movie
<b>Movie_Playing_Title</b>	Title of playing movie

<b>Movie_Playing_Coverart</b>	URL for cover art of playing movie
<b>Movie_Playing</b>	When digital is high the movie is playing
<b>Movie_Paused</b>	When digital is high the movie is pause
<b>Movie_Stopped</b>	When digital is high the movie stopped

### Output Category 5: Movie\_TP\_Alpha\_Sort\_Bar\_FB

<b>TouchPanel_Alpha_Slider_Active_Letter</b>	Active letter being scrolled over on the Alpha Bar Sorter for the touch Panel
<b>TouchPanel_Letter_State[#-Z]</b>	State of letter on the Alpha Bar Sorter 0 = Unselected 1 = Selected 2 = Activated

### Output Category 6: Movie\_OSD\_Alpha\_Sort\_Bar\_FB

<b>OSD_Alpha_Slider_Active_Letter</b>	Active letter being scrolled over on the Alpha Bar Sorter for the on screen display
<b>OSD_Letter_State[#-Z]</b>	State of letter on the Alpha Bar Sorter 0 = Unselected 1 = Selected 2 = Activated

### Output Category 7: Music List

<b>Music_Top_Category</b>	Gives the category for the list of music items being display (i.e. artist, album, ect)
<b>Msuic_Album_Cover_Art_URL</b>	Give the URL for the last selected album
<b>Music_List_Line_[1-10]</b>	Serial outputs for music library list

## Parameters

<b>Serial Number</b>	Serial number of Fusion Research box that is to be controlled
<b>IP Address</b>	IP address of Fusion Research box that is to be controlled

<b>Movie Cover Art Displayed</b>	The number of cover art items that are to be displayed on the touch panel(decimal value)
<b>Movie List Items Displayed</b>	The number movie list items that will be displayed on the touch panel
<b>Movie Plot Character Per Line</b>	Number of characters per line that will be displayed for the plot in the movie details section.
<b>Movie Plot Shown Lines</b>	Number of lines that will be displayed for the plot in the movie details section
<b>Music List Items Displayed</b>	Number of music list items that will be displayed on the touch panel

For support contact [Support@infusebox.com](mailto:Support@infusebox.com)

## **MODIFICATIONS:**

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## **Fusion Research Module v1.00**

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