

Partner: NEC
Model: MultiSync
Device Type: TV



GENERAL INFORMATION

SIMPLWINDOWS NAME:	"NEC MultiSync v1.1"
CATEGORY:	TV
VERSION:	V1.1
SUMMARY:	This module will control NEC MultiSync TV's via RS232.
GENERAL NOTES:	<p>This module will control NEC MultiSync TV's via RS232. The module offers functionality to control Power, Volume, mute, source selection, analog & digital closed caption and other basic TV control functions.</p> <p>V1.1:</p> <ul style="list-style-type: none"> • Added ramping for volume controls. • Fixed Set_Volume_Level input
CRESTRON HARDWARE REQUIRED:	C2ENET-1, C2ENET-2
SETUP OF CRESTRON HARDWARE:	<p>RS232</p> <p>Baud:9600</p> <p>Parity: None</p> <p>Data Bits: 8</p> <p>Stop Bits: 1</p>
VENDOR FIRMWARE:	n/a
VENDOR SETUP:	Connect the serial com port of the Crestron processor with the serial com port labeled "in" on the NEC display.
CABLE DIAGRAM:	Crossed serial cable.

CONTROL:

Power_<On/Off/Toggle>	D	Pulse to turn the display on or off.
Poll_Main_Info	D	Pulse to retrieve feedback for the power status, volume level, mute status, source selection, closed caption selection and control button lock status.
VOL +/-	D	Pulse to lower or raise the volume level.
Set_Volume_Level	A	Analog input to allow volume preset levels.
<Mute/UnMute/Toggle>_Volume_Level	D	Pulse to mute or unmute the volume level.

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Select_No_Source	D	Pulse to clear the source selection.
Select_VGA_Source	D	Pulse to select the VGA source.
Select_RGB/HV_Source	D	Pulse to select the RGB/HV source.
Select_DVI_Source	D	Pulse to select the DVI source.
Select_Video1_Source	D	Pulse to select the Video1 source.
Select_Video2_Source	D	Pulse to select the Video2 source.
Select_Svideo_Source	D	Pulse to select the s-video source.
Select_Component1_Source	D	Pulse to select the component 1 source.
Select_Component2_Source	D	Pulse to select the Component 2 source.
Select_TV_Source	D	Pulse to select the TV source.
Select_HDMI_1_Source	D	Pulse to select the HDMI 1 source.
Select_HDMI_2_Source	D	Pulse to select the HDMI 2 source.
Select_HDMI_3_Source	D	Pulse to select the HDMI 3 source.
Select_Display_Port_Source	D	Pulse to select the display port source.
Digit_<0-9>	D	Pulse to select digit <0-9>
Keypad_	D	Pulse to select multiple digit entries.
ENTER	D	Pulse to select enter.
CH-	D	Pulse to lower the channel by 1.
CH+	D	Pulse to raise the channel by 1.
<UP,DOWN,LEFT,RIGHT>_ARROW	D	Pulse to select <UP,DOWN,LEFT,RIGHT>.
SET	D	Pulse to select <SET, OK>.
GUIDE	D	Pulse to select the guide.
MENU	D	Pulse to open the menu.
EXIT	D	Pulse to exit the menu or to select a higher menu layer.

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DISPLAY	D	Pulse to show display information.
Auto_Setup	D	Pulse to select auto setup.
Picture_Mode	D	Pulse to cycle between the picture modes.
Aspect	D	Pulse to cycle between aspect settings
Sound	D	Pulse to toggle surround sound mode on and off.
Select_Analog_Closed_Caption_Off	D	Pulse to turn analog closed caption off.
Select_Analog_Closed_Caption_CCx	D	Pulse to select analog closed caption CCx. X = <1-4>.
Select_Analog_Closed_Caption_TTx	D	Pulse to select analog closed caption TTx. X = <1-4>.
Select_Digital_Closed_Caption_Off	D	Pulse to turn digital closed caption off.
Select_Digital_Closed_Caption_Srvx	D	Pulse to select digital closed caption Srvx. X = <1-4>.
<Lock,Unlock,Toggle>_Control_Button	D	Pulse to lock or unlock button control.
From_Device	S	Serial data signal to be routed from a 2 way com port.

FEEDBACK:

Power_Is_<On/Off>	D	Latches high to indicate current power status.
Volume_Level_Analog	A	Analog signal indicating the current volume level.
Volume_Level_is_<Muted,Not_Muted>	D	Latches high to indicate current mute status.
No_Source_is_Selected	D	High to indicate that no source is selected.
VGA_Source_is_Selected	D	High to indicate that the VGA source is selected.
RGB/HV_Source_is_Selected	D	High to indicate that the RGB/HV source is selected.
DVI_Source_is_Selected	D	High to indicate that the DVI source is selected.
Video1_Source_is_Selected	D	High to indicate that the Video1 source is selected.
Video2_Source_is_Selected	D	High to indicate that the Video2 source is selected.
Svideo_Source_is_Selected	D	High to indicate that the s-video source is selected.

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Component1_Source_is_Selected	D	High to indicate that the component1 source is selected.
Component2_Source_is_Selected	D	High to indicate that the component2 source is selected.
TV_Source_is_Selected	D	High to indicate that the TV source is selected.
HDMI_1_Source_is_Selected	D	High to indicate that the HDMI 1 source is selected.
HDMI_2_Source_is_Selected	D	High to indicate that the HDMI 2 source is selected.
HDMI_3_Source_is_Selected	D	High to indicate that the HDMI 3 source is selected.
Display_Port_Source_is_Selected	D	High to indicate that the display port source is selected.
Analog_Closed_Caption_Off_is_Selected	D	High to indicate that no analog closed caption is selected.
Analog_Closed_Caption_CCx_is_Selected	D	High to indicate that CCx analog closed caption is selected. X: <1-4>
Analog_Closed_Caption_TTx_is_Selected	D	High to indicate that TTx analog closed caption is selected. X: <1-4>
Digital_Closed_Caption_Off_is_Selected	D	High to indicate that no digital closed caption is selected.
Digital_Closed_Caption_Srvx_is_Selected	D	High to indicate that Srvx analog closed caption is selected. X: <1-6>
Control_Button_is_<Locked,Not_Locked>	D	Latches high to indicate button control lock status.
To_Device	S	Serial data signal to be routed to a 2 way com port.

TESTING:

OPS USED FOR TESTING:	2-Series: v4.007.0004 3-Series: v1.006.0026
SIMPL WINDOWS USED FOR TESTING:	4.02.08
DEVICE DB USED FOR TESTING:	49.05.005.00
CRES DB USED FOR TESTING:	38.00.006.00
SYMBOL LIBRARY USED FOR TESTING:	858
SAMPLE PROGRAM:	2-Series: "NEC MultiSync v1.1 PRO2 Demo" 3-Series: "NEC MultiSync v1.1 MC3 Demo"
REVISION HISTORY:	v1.1