Partner: Philips
Model: European Hospitality TV
Device Type: TV

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Philips Hospitality TV v1.0 RS232
CATEGORY:	TV/Video Projector
VERSION:	1.0
SUMMARY:	This module controls RS232 communication with a Philips European Hospitality display that supports the Philips SerialXpress protocol.
GENERAL NOTES:	This module will control a Philips European Hospitality display that supports the Philips SerialXpress protocol. This module is intended to control a single display and does not support video wall or broadcast capabilities. **Important Note: when polling is enabled, the module will query the display for current status of all attributes handled by the module. However, mute status is not an available query and cannot be polled for. As such, it is not possible to accurately know the current mute status until the display acknowledges a Set command. Therefore, the module will reflect a mute status of off until the mute has been manually set to a value and the display acknowledges the command. Because of this, it is possible for the module to reflect a mute status which is not in line with the actual status of the display.**
CRESTRON HARDWARE REQUIRED:	Crestron 3-Series processor **only**.
SETUP OF CRESTRON HARDWARE:	RS232: Baud: 38400 Parity: None Data Bits: 8 Stop Bits: 1 Flow Control: None
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	N/A

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PARAMETER:

Display_ID	Indicates the ID that has been set for the display to be controlled.

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CONTROL:

Reinitialize	D	Pulse to re-establish communication with the display and sync the module with the current state of the display. *Note: the module will automatically attempt to connect to the display and initialize on startup. This signal is used as a backup in case there is any point where you may need to reconnect and initialize manually.*
Enable_Debug	D	Latch high to enable trace messages in SIMPL Debugger which show relevant operations happening within the SIMPL# module. *Note: it is recommended to keep this turned off during normal operation and only turn on if troubleshooting device operation as the large amount of trace statements printed may bog down the processor.*
Enable_Polling	D	Latch high to enable polling the display for the status of all relevant attributes. Unlatch to turn off polling. *Note: the displays tested do not provide unsolicited feedback. Enabling polling is highly recommended for accurate and up-to-date feedback. Polling, if turned on, will occur every 15 seconds.*
Power_On	D	Pulse to turn on the display.
Power_Off	D	Pulse to turn off the display.
Power_Toggle	D	Pulse to toggle the power status of the display.
Volume_Up	D	Pulse to raise the volume of the display by 1 step.
Volume_Down	D	Pulse to lower the volume of the display by 1 step.
Volume_Level	A	Set the volume level to be set using “Volume_Level_Set”. If “Volume_Level_Set” is high when this value changes, the module will automatically send the new value.
Volume_Level_Set	D	Pulse to send the volume value currently set on “Volume_Level”. This will allow preset value to be sent to the display.
Volume_Mute_On	D	Pulse to turn on the volume mute.
Volume_Mute_Off	D	Pulse to turn off the volume mute.
Volume_Mute_Toggle	D	Pulse to toggle the status of volume mute.

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CONTROL continued:

Source_Select	A	Set the input source to be used. Inputs correspond to the following analog values: 1 = Main Tuner 2 = Secondary Tuner 3 = AV1 / SCART1 4 = AV2 / SCART2 / S-Video 5 = YPBPR1 6 = YPBPR2 / SVIDEO 7 = VGA 8 = HDMI 1 9 = HDMI 2 10 = HDMI 3 11 = USB 12 = Side HDMI / HDMI 4 13 = Side AV *Note: different displays support different inputs. Setting an input that does not exist on the display you are using will have no effect.*

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CONTROL continued:

Channel_Select_Type	A	Set the Tuner type to be used during channel selection. Modes correspond to the following analog values: 0 = Analog (Default) 1 = Digital
Channel_Select_Major_Digit_12	A	Set the value to be used for the leftmost 2 digits (1 & 2) in the 6 digit Major channel value (Min = 0 | Max = 99). Examples: Channel = 000001…this signal would be 0 Channel = 123456…this signal would be 12 Channel = 999999…this signal would be 99 *Note: the Major channel is used if Channel_Select_Type is either Analog or Digital.*
Channel_Select_Major_Digit_34	A	Set the value to be used for the middle 2 digits (3 & 4) in the 6 digit Major channel value (Min = 0 | Max = 99). Examples: Channel = 000001…this signal would be 0 Channel = 123456…this signal would be 34 Channel = 999999…this signal would be 99 *Note: the Major channel is used if Channel_Select_Type is either Analog or Digital.*
Channel_Select_Major_Digit_56	A	Set the value to be used for the rightmost 2 digits (5 & 6) in the 6 digit Major channel value (Min = 0 | Max = 99). Examples: Channel = 000001…this signal would be 0 Channel = 123456…this signal would be 56 Channel = 999999…this signal would be 99 *Note: the Major channel is used if Channel_Select_Type is either Analog or Digital.*
Channel_Select_Minor_Digit_12	A	Set the value to be used for the leftmost 2 digits (1 & 2) in the 6 digit Minor channel value (Min = 0 | Max = 99). Examples: Channel = 000001…this signal would be 0 Channel = 123456…this signal would be 12 Channel = 999999…this signal would be 99 *Note: the Minor channel is only used if Channel_Select_Type is Digital.*
Channel_Select_Minor_Digit_34	A	Set the value to be used for the middle 2 digits (3 & 4) in the 6 digit Minor channel value (Min = 0 | Max = 99). Examples: Channel = 000001…this signal would be 0 Channel = 123456…this signal would be 34 Channel = 999999…this signal would be 99 *Note: the Minor channel is only used if Channel_Select_Type is Digital.*

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CONTROL continued:

Channel_Select_Minor_Digit_56	A	Set the value to be used for the rightmost 2 digits (5 & 6) in the 6 digit Minor channel value (Min = 0 | Max = 99). Examples: Channel = 000001…this signal would be 0 Channel = 123456…this signal would be 56 Channel = 999999…this signal would be 99 *Note: the Minor channel is only used if Channel_Select_Type is Digital.*
Channel_Select_Set	D	Pulse to recall a channel on the display using the Channel Type, Major digits and Minor digits set on the signals described above.
Lock	A	Set the Lock Mode to be used. Modes correspond to the following analog values: 1 = Lock Both IR & Keypad 2 = Lock Keypad Only 3 = Lock IR Only 4 = Unlock Both IR & Keypad 5 = Lock Both IR & Keypad Except Power 6 = Lock Keypad Only Except Power *Note: different displays may support different Lock Modes. Setting a mode that does not exist on the display you are using will have no effect.*
From_Display	S	Serial signal to be routed from a 2-way COM port.

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FEEDBACK:

Is_Communicating	D	High to indicate that communication has been established with the display. Once communication has been established, the module will attempt to initialize automatically.
Is_Initialized	D	High to indicate that the module's internal state variables are now synced with the display's current state. Outgoing commands will not be sent to the display until the module is initialized. However, heartbeat commands will continue to be sent.
Power_Is_On	D	High to indicate the display is currently on.
Volume_Level	A	Value indicating the current volume level of the display.
Volume_Is_Muted	D	High to indicate the volume is muted.
Current_Source	A	Value indicating the current source set on the display.
Current_Channel_Type	A	Value indicating the currently selected channel type.
Current_Channel_Major_Digit_12	A	Value indicating the leftmost 2 digits (1 & 2) in the 6 digit Major channel value for the current channel the display is set to.
Current_Channel_Major_Digit_34	A	Value indicating the middle 2 digits (3 & 4) in the 6 digit Major channel value for the current channel the display is set to.
Current_Channel_Major_Digit_56	A	Value indicating the rightmost 2 digits (5 & 6) in the 6 digit Major channel value for the current channel the display is set to.
Current_Channel_Minor_Digit_12	A	Value indicating the leftmost 2 digits (1 & 2) in the 6 digit Minor channel value for the current channel the display is set to. *Note: value of 255 means Not Applicable, as is the case when tuner type is Analog.*
Current_Channel_Minor_Digit_34	A	Value indicating the middle 2 digits (3 & 4) in the 6 digit Minor channel value for the current channel the display is set to. *Note: value of 255 means Not Applicable, as is the case when tuner type is Analog.*
Current_Channel_Minor_Digit_56	A	Value indicating the rightmost 2 digits (5 & 6) in the 6 digit Minor channel value for the current channel the display is set to. *Note: value of 255 means Not Applicable, as is the case when tuner type is Analog.*
Current_Lock	A	Value indicating the current Lock Mode set on the display.
To_Display	S	Serial signal to be routed to a 2-way COM port.

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TESTING:

OPS USED FOR TESTING:	RMC3: 1.501.0025
SIMPL WINDOWS USED FOR TESTING:	4.07.03
CRES DB USED FOR TESTING:	63.06.002.00
DEVICE DATABASE:	86.05.003.00
SYMBOL LIBRARY USED FOR TESTING:	1038
SAMPLE PROGRAM:	Philips Hospitality TV v1.0 RS232 Demo RMC3
REVISION HISTORY:	v1.0 – Initial Release

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