GENERAL INFORMATION

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SIMPLWINDOWS NAME:	Optoma TH7500 v1.0
CATEGORY:	TV/Video Projector
VERSION:	1.0
SUMMARY:	This module will control the Optoma TH7500 Projector
GENERAL NOTES:	This module will control the following functions of the Optoma TH7500: Power, Source Select, Picture Mute, Aspect Ratio, Contrast, Brightness and the acquisition of elapsed lamp hour usage. True feedback is provided for most functions. When any command is sent to the projector, the module will acknowledge that the command was processed and the corresponding feedback will be reflected at the outputs of this module. When the Poll_Lamp input is asserted (Default =1), the projector will be polled every 300 seconds to determine the lamp hours used. This Module will only poll lamp hours when the projector power is on. **NOTE:** This module depends on feedback from the device. You cannot comment out the From_Device serial input. This serial signal must be used for proper module operation. Auto source selection must be disabled for proper module operation. This module is SystemBuilder compatible.
CRESTRON HARDWARE REQUIRED:	C2I-COM, ST-COM, C2-COM-* or CNX-COM2
SETUP OF CRESTRON HARDWARE:	RS232 Baud:9600 Parity: None Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	C004
VENDOR SETUP:	None
CABLE DIAGRAM:	CNSP-124

Partner: Optoma
Model: TH7500
Device Type: Video Projector

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Rear View of Connector

CNSP-124

Rear View of Connector

Rx
Tx
G

9 Pin Female

Rx
Tx
G

9 Pin Female
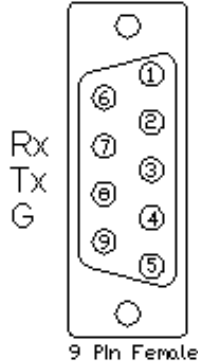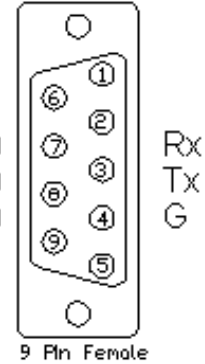
CONTROL:

Power_<On/Off/Toggle>	D	Pulse to turn the display on or off.
Input_HDMI_1	D	Pulse to select the HDMI 1 Input
Input_HDMI_2	D	Pulse to select the HDMI 2 Input
Input_BNC	D	Pulse to select the BNC Input
Input_VGA_1	D	Pulse to select the VGA 1 Input
Input_VGA_2	D	Pulse to select the VGA 2 Input
Input_Video	D	Pulse to select the Video Input
Input_S_Video	D	Pulse to select the S Video Input
Input_Component	D	Pulse to select the Component Input
Display_Mode_Presentation	D	Pulse to select the Presentation Display Mode
Display_Mode_Bright	D	Pulse to select the Bright Display Mode
Display_Mode_Movie	D	Pulse to select the Movie Display Mode
Display_Mode_sRGB	D	Pulse to select the sRGB Display Mode
Display_Mode_User_1	D	Pulse to select the User 1 Display Mode
Display_Mode_User_2	D	Pulse to select the User 2 Display Mode

Display_Mode_Blackboard	D	Pulse to select the Blackboard Display Mode
Display_Mode_Classroom	D	Pulse to select the Classroom Display Mode
Format_4x3	D	Pulse to select the 4x3 Format
Format_16x9	D	Pulse to select the 16x9 Format
Format_16x10	D	Pulse to select the 16x10 Format
Format_Letterbox	D	Pulse to select the Letterbox Format
Format_Native	D	Pulse to select the Native Format
Format_Auto	D	Pulse to select the Auto Format
AV_Mute_On	D	Pulse to set the AV Mute On
AV_Mute_Off	D	Pulse to set the AV Mute Off
Bright_+	D	Press and Hold to raise the Bright Level for the selected input
Bright_-	D	Press and Hold to lower the Bright Level for the selected input
Contrast_+	D	Press and Hold to raise the Contrast Level for the selected input
Contrast_-	D	Press and Hold to lower the Contrast Level for the selected input
Poll_Lamp	D	Hold High to enable lamp hour polling
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.
Input_Is_HDMI_1	D	High to indicate that the current input is HDMI 1
Input_Is_HDMI_2	D	High to indicate that the current input is HDMI 2
Input_Is_BNC	D	High to indicate that the current input is BNC
Input_Is_VGA_1	D	High to indicate that the current input is VGA 1

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Input_Is_VGA_2	D	High to indicate that the current input is VGA 2
Input_Is_Video	D	High to indicate that the current input is Video
Input_Is_S_Video	D	High to indicate that the current input is S Video
Input_Is_Component	D	High to indicate that the current input is Component
Display_Mode_Is_Presentation	D	High to indicate that the current display mode is Presentation
Display_Mode_Is_Bright	D	High to indicate that the current display mode is Bright
Display_Mode_Is_Movie	D	High to indicate that the current display mode is Movie
Display_Mode_Is_sRGB	D	High to indicate that the current display mode is sRGB
Display_Mode_Is_User_1	D	High to indicate that the current display mode is User 1
Display_Mode_Is_User_2	D	High to indicate that the current display mode is User 2
Display_Mode_Is_Blackboard	D	High to indicate that the current display mode is Blackboard
Display_Mode_Is_Classroom	D	High to indicate that the current display mode is Classroom
Format_Is_4x3	D	High to indicate that the current format is 4x3
Format_Is_16x9	D	High to indicate that the current format is 16x9
Format_Is_16x10	D	High to indicate that the current format is 16x10
Format_Is_Letterbox	D	High to indicate that the current format is Letterbox
Format_Is_Native	D	High to indicate that the current format is Native
Format_Is_Auto	D	High to indicate that the current format is Auto
Bright_Level	A	Analog value to indicate the current Bright Level
Contrast_Level	A	Analog value to indicate the current Contrast Level
Lamp_Hours	A	Analog value to indicate the current Lamp Hour usage
To_Device	S	Serial data signal to be routed to a 2 way com port.

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TESTING:

OPS USED FOR TESTING:	v4.001.1012
SIMPL WINDOWS USED FOR TESTING:	3.02.14
DEVICE DB USED FOR TESTING:	36.05.006.00
CRES DB USED FOR TESTING:	27.05.016.00
SYMBOL LIBRARY USED FOR TESTING:	749
SAMPLE PROGRAM:	Optoma TH7500 v1.0 Demo PRO2.smw
REVISION HISTORY:	v1.0 – Initial Release