HELP FILE DOCUMENT

Manufacturer: Opale TV
Model: Mirror Display
Device Type: Display

CONTACT SUPPORT:

COMPANY NAME: SERTEK

SUPPORT CONTACT: Nicolas Hallynck

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ADDRESS: Avenue Magellan 94000 Créteil France

NOTES:

GENERAL INFORMATION

SIMPLWINDOWS NAME:	OpaleTv_Rs232.umc
CATEGORY:	Display
VERSION:	1.0
SUMMARY:	This driver enables the control of Opale TV mirror screen via serial connection. It allows the use of embedded tuners and apps, as well as HDMI inputs.
GENERAL NOTES:	
CRESTRON HARDWARE REQUIRED:	4-Series Processor
SETUP OF CRESTRON HARDWARE:	Baudrate / Standard Screen -> 9600 bps Baudrate / 4K Screen -> 115200 bps Data length -> 8 bits Parity bit -> None Stop bit -> None Flow control -> None
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	N/A
CABLE DIAGRAM:	Pin 3 -> Tx Pin 4 -> Rx Pin 5 -> GND

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CONTROL: (General)

Signal/Function Name	*D,S,A*	*Digital, Serial, Analog signal property definition.*
Connect	D	Start connection to the screen socket High/1 = Connect; Low/0 = Disconnect
Poll	D	Pulse to get all last states from the screen

FEEDBACK: (General)

Connect_Fb	D	Indicate when the driver is connected to the display

CONTROL: (Power)

Signal/Function Name	*D,S,A*	*Digital, Serial, Analog signal property definition.*
Power_On	D	Pulse to power ON the display
Power_Off	D	Pulse to power OFF the display
Power_On/Off	D	Pulse to toggle power
Get_Power_Status	D	Pulse to refresh power status

FEEDBACK: (Power)

Signal/Function Name	*D,S,A*	*Digital, Serial, Analog signal property definition.*
Power_On_Fb	D	High when the display is ON
Power_Off_Fb	D	High when the display is OFF

CONTROL: (Inputs)

Signal/Function Name	*D,S,A*	*Digital, Serial, Analog signal property definition.*
Input_DVB-T	D	Pulse to select DVB-T input on the display
Input_DVB-C	D	Pulse to select DVB-C input on the display
Input_DVB-S	D	Pulse to select DVB-S input on the display
Input_Analog_TV	D	Pulse to select Analog TV input on the display

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Input_Media	D	Pulse to select Media input on the display
Input_AV	D	Pulse to select AV input on the display
Input_YUV	D	Pulse to select YUV input on the display
Input_PC/RGB	D	Pulse to select PC/RGB input on the display
Input_HDMI1	D	Pulse to select HDMI 1 input on the display
Input_HDMI2	D	Pulse to select HDMI 2 input on the display
Input_HDMI3	D	Pulse to select HDMI 3 input on the display
Get_Input_Status	D	Pulse to update the selected input status

FEEDBACK: (Inputs)

Signal/Function Name	*D,S,A*	*Digital, Serial, Analog signal property definition.*
Input_DVB-T_Fb	D	High when input DVB-T is selected
Input_DVB-C_Fb	D	High when input DVB-C is selected
Input_DVB-S_Fb	D	High when input DVB-S is selected
Input_Analog_TV_Fb	D	High when input Analog TV is selected
Input_Media_Fb	D	High when input Media is selected
Input_AV_Fb	D	High when input AV is selected
Input_YUV_Fb	D	High when input YUV is selected
Input_PC/RGB_Fb	D	High when input PC/RGB is selected
Input_HDMI1_Fb	D	High when input HDMI 1 is selected
Input_HDMI2_Fb	D	High when input HDMI 2 is selected
Input_HDMI3_Fb	D	High when input HDMI 3 is selected

CONTROL: (Aspect Ratio)

Signal/Function Name	*D,S,A*	*Digital, Serial, Analog signal property definition.*

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Manufacturer: Opale TV
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Aspect_Ratio_4/3	D	Pulse to set aspect ratio to 4/3
Aspect_Ratio_16/9	D	Pulse to set aspect ratio to 16/9
Aspect_Ratio_Zoom1	D	Pulse to set aspect ratio to Zoom 1
Aspect_Ratio_Zoom2	D	Pulse to set aspect ratio to Zoom 2
Aspect_Ratio_1/1	D	Pulse to set aspect ratio to 1/1
Aspect_Ratio_Auto	D	Pulse to set aspect ratio to auto
Get_Aspect_Ratio_Status	D	Pulse to refresh the select aspect ratio

FEEDBACK: (Aspect Ratio)

Signal/Function Name	*D,S,A*	*Digital, Serial, Analog signal property definition.*
Aspect_Ratio_4/3_Fb	D	High when aspect ratio is set to 4/3
Aspect_Ratio_16/9_Fb	D	High when aspect ratio is set to 16/9
Aspect_Ratio_Zoom1_Fb	D	High when aspect ratio is set to Zoom 1
Aspect_Ratio_Zoom2_Fb	D	High when aspect ratio is set to Zoom 2
Aspect_Ratio_1/1_Fb	D	High when aspect ratio is set to 1/1
Aspect_Ratio_Auto_Fb	D	High when aspect ratio is set to auto

CONTROL: (Screen Mute)

Signal/Function Name	*D.S.A*	*Digital, Serial, Analog signal property definition.*
Screen_Mute_On	D	Pulse to set screen mute to ON
Screen_Mute_Off	D	Pulse to set screen mute to OFF
Get_Volume_Mute_Status	D	Pulse to refresh volume mute status

FEEDBACK: (Screen Mute)

Signal/Function Name	*D.S.A*	*Digital, Serial, Analog signal property definition.*
Screen_Mute_On_Fb	D	High when screen mute is active

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Manufacturer: Opale TV
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Screen_Mute_Off_Fb	D	High when screen mute is not active

CONTROL: (Volume)

Signal/Function Name	*D,S,A*	*Digital, Serial, Analog signal property definition.*
Volume_Mute_On	D	Pulse to set volume mute to ON
Volume_Mute_Off	D	Pulse to set volume mute to OFF
Volume_Level	A	Set volume level 0-100d
Get_Volume_Level_Status	D	Pulse to refresh the volume level status

FEEDBACK: (Volume)

Signal/Function Name	*D,S,A*	*Digital, Serial, Analog signal property definition.*
Volume_Mute_On_Fb	D	High when volume is muted
Volume_Mute_Off_Fb	D	High when volume is not muted
Volume_Level_Fb	A	Volume level state 0-100d

CONTROL: (OSD)

Signal/Function Name	*D,S,A*	*Digital, Serial, Analog signal property definition.*
OSD_On	D	Pulse to set OSD to ON
OSD_Off	D	Pulse to set OSD to OFF
Get_OSD_Status	D	Pulse to refresh OSD status

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FEEDBACK: (OSD)

Signal/Function Name	*D,S,A*	*Digital, Serial, Analog signal property definition.*
OSD_On_Fb	D	High when OSD is ON
OSD_Off_Fb	D	High when OSD is OFF

CONTROL: (Remote Lock)

Signal/Function Name	*D,S,A*	*Digital, Serial, Analog signal property definition.*
Remote_Lock_On	D	Pulse to set OSD to ON
Remote_Lock_Off	D	Pulse to set OSD to OFF
Get_Remote_Lock_Status	D	Pulse to refresh the remote lock status

CONTROL: (Remote Lock)

Signal/Function Name	*D,S,A*	*Digital, Serial, Analog signal property definition.*
OSD_On_Fb	D	High when OSD is ON
OSD_Off_Fb	D	High when OSD is OFF

CONTROL: (Remote Key)

Signal/Function Name	*D,S,A*	*Digital, Serial, Analog signal property definition.*
Picture_Size -> Stop	D	Pulse to send corresponding display remote command

CONTROL: (Remote Lock)

Signal/Function Name	*D,S,A*	*Digital, Serial, Analog signal property definition.*
OSD_On_Fb	D	High when OSD is ON
OSD_Off_Fb	D	High when OSD is OFF

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COMMUNICATION :

Signal/Function Name	*D,S,A*	*Digital, Serial, Analog signal property definition.*
Rs232_TV_Tx	S	Connected to display Tx COM port
Rs232_TV_Rx	S	Connected to display Rx COM port

TESTING: (please fill out carefully)

OPS USED FOR TESTING:	CP4 : 2.8006.00322.01
SIMPL WINDOWS USED FOR TESTING:	4.32
DEVICE DB USED FOR TESTING:	200.46000.001.00
CRES DB USED FOR TESTING:	228.5500.001.00
SYMBOL LIBRARY USED FOR TESTING:	1243
SAMPLE PROGRAM:	Sertek.SimplWindows.OpaleTvRs232_v1.0.Demo
REVISION HISTORY:	V1.0 – Initial release

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