



Switcher Module

Partner: Kanex Pro

Model: HDBASEx

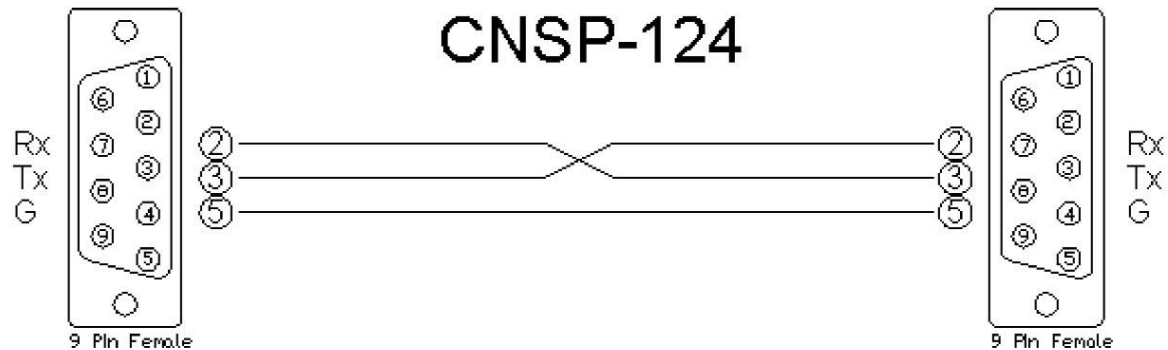
Device Type: Switcher

GENERAL INFORMATION	
SIMPL WINDOWS FILENAME:	Kanex Pro HDBase Switcher.umc
CATEGORY:	Switcher
VERSION:	1.0
SUMMARY:	This module provides control and true feedback for the Kanex Pro HDMX44RS, HDBASE8X8, HDBASE16X16, HDBASE32X32, HDMMX88A, HDMMX1616A, HDMMX3232A and HDMMX6464A switchers.
GENERAL NOTES:	This module provides operating controls for the Kanex Pro HDMX44RS, HDBASE8X8, HDBASE16X16, HDBASE32X32, HDMMX88A, HDMMX1616A, HDMMX3232A and HDMMX6464A switchers. It provides real feedback by polling at a user defined interval
CRESTRON HARDWARE REQUIRED:	C3-COM,C2-COM, ST-COM
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 9600 Parity: None Data Bits: 8 Stop Bits: 1 Flow Control: None
CABLE DIAGRAM:	CNSP-124
SAMPLE PROGRAM FILENAME:	Kanex Pro Switcher Module example, v1.0.smw
DOCUMENT NOTES:	Items marked with an asterisk indicated signals only available on HDBASE or HDMMX switchers. Items marked with a double asterisk (**) indicate signals only available on the HDBASE model switchers. (***) indicates signal only available on the HDMX switchers.

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CONTROL

*Audio_Output (1-64)	A	Analog decimal value indicating the audio input being sent to the corresponding audio output. This field is expandable up to 64. Not all modular cards in the HDBASE switcher frame support independent audio routing (currently only VGA).
Video_Output (1-64)	A	Analog decimal value indicating the video input being sent to the corresponding video output. This field is expandable up to 64. Both audio and video will route when cards not supporting independent audio routing are used. Audio follow video signal must be high for HDMX switchers.
***Audio Follow Video	A	Analog decimal value indicating the video and audio input being sent to the corresponding video and audio output. This field is expandable up to 64.
**IR Output(1-64)	A	Analog decimal value indicating the IR input channel being routed to the corresponding output channel. This field is expandable up to 64.
**HDBaseT_Rec(1-64)_TX\$	S	Send this command to the corresponding HDBaseT receiver to control far-end device. Commands are limited to 48 Bytes.
**Power_On	D	Pulse to power the HDBaseT receivers on and enter normal working mode.
**Power_Off	D	Pulse to enter into standby mode and cut off the power supply to HDBaseT receivers.
**Standby	D	Pulse to enter into standby mode.
Poll_switcher_type	D	Pulse to poll the switcher for the model name.
Poll_Version	D	Pulse to poll the version of firmware
Switcher_All_Outputs_Off	D	Pulse to switch off all the output channels.
Lock_Keyboard	D	Pulse to lock the front control panel on the switcher.



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Unlock_Keyboard	D	Pulse to unlock the front control panel on the switcher.
Poll_Enable	D	Set high to enable polling.
Preset#	A	Analog value for preset to be saved or recalled.
**Poll_Connect_Input_Status	D	Pulse to check the connection status of the inputs
**Poll_Connect_Output_Status	D	Pulse to check the connection status of the outputs
**Poll_HDCP_Input_Status	D	Pulse to check the HDCP status of the inputs
**Poll_HDCP_Output_Status	D	Pulse to check the HDCP status of the outputs
**Auto_HDCP	D	Pulse to allow the switcher to perform automatic HDCP management.
**IR_Carrier_Following	D	Pulse to set as infrared carrier following mode
**IR_Carrier_Enforcing	D	Pulse to set as infrared carrier enforcing mode
**Reset_Factory_Default	D	Pulse to reset the unit to factory defaults
Save_Preset_PB	D	Pulse to save the preset indicated by the analog value Preset#
Recall_Preset_PB	D	Pulse to recall the preset indicated by the analog value Preset#
Clear_Preset_PB	D	Pulse to clear the preset indicated by the analog value Preset#
EDID_Copy_Output#	A	Analog value of the output whose EDID value will be copied.
EDID_Copy_Input#	A	Analog value of the input to copy the EDID value into.
EDID_Copy	D	Pulse to copy the EDID values at the output selected with EDID_Copy_Output# to the input selected with EDID_Copy_Input#.
**Input_HDCP_Compliant	D	Pulse to set the input selected with the HDCP# to compliant
**Input_HDCP_Compliant!	D	Pulse to set the input selected with the HDCP# to non-compliant
**Output_HDCP_Compliant	D	Pulse to set the output selected with the HDCP# to compliant
**Output_HDCP_Compliant!	D	Pulse to set the output selected with the HDCP# to non-compliant
**HDCP#	A	Analog value to modify the HDCP compliance status
**DigitAudio_On	D	Pulse to turn on the digital audio out of the output selected with DigitAudio_ChngPort#. Note if the port N+1 is selected in DigitAudio_ChngPort#, where N is the number of outputs, all ports will have the digital audio out turned on.



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**DigitAudio_Off	D	Pulse to turn off the digital audio out of the output selected with DigitAudio_ChngPort#. Note if the port N+1 is selected in DigitAudio_ChngPort#, where N is the number of outputs, all ports will have the digital audio out turned off.
**DigitAudio_ChngPort#	A	Analog value to turn the digital audio on or off
From_Device\$	S	Serial signal to be routed from a 2-way serial com port.

FEEDBACK

Audio_Output_FB (1-64)	A	Analog decimal value based on polling feedback indicating the actual audio input being sent to the corresponding audio output. This field is expandable up to 64. Not all modular cards in the HDBASE switcher frame support independent audio routing (currently only VGA).
Video_Output_FB (1-64)	A	Analog decimal value based on polling feedback indicating the actual video input being sent to the corresponding video output. This field is expandable up to 64. This value will show both audio and video will route when cards not supporting independent audio routing are used.
**IR_Output_FB (1-64)	A	Analog decimal value based on polling feedback indicating the actual IR input being sent to the corresponding IR output. This field is expandable up to 64
Input_Source_Name (1-64)	S	Serial value of the name of the input to use on a touch panel to display a list of sources.
Video_Output_Name (1-64)	S	Serial value of the name of the input currently switched to the corresponding video output.
Audio_Output_Name (1-64)	S	Serial value of the name of the input currently switched to the corresponding audio output (when supported).
Switcher_Type\$	S	Serial value indicating the model of the switcher in use.
Switcher_Version\$	S	Serial value indicating the firmware version of the switcher in use.
**Power_On_FB	D	Digital value indicating the power the HDBaseT receivers is on and the switcher is in normal working mode.
**Power_Off_FB	D	Digital value indicating the power the HDBaseT receivers is off and the switcher is in standby mode.
**Standby_FB	D	Digital value indicating the switcher is in standby mode.
Lock_Keyboard_FB	D	
Unlock_Keyboard_FB	D	



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**CONNECT_IN_STATUS_FB(1-64)	D	Digital signal indicating that a device is connected to the corresponding input
**CONNECT_OUT_STATUS_FB (1-64)	D	Digital signal indicating that a device is connected to the corresponding Output
**HDCP_IN_STATUS_FB(1-64)	D	Digital signal indicating that the input is HDCP compliant.
**HDCP_Output_STATUS_FB(1-64)	D	Digital signal indicating that the output is HDCP compliant.
To_Device\$	S	Serial signal to be 3 to a 2-way serial com port.

PARAMETERS

Poll_Rate	Value of the interval for polling. Recommended value of no less than 10s.
Input_Names (1-64)	Enter the names of each input used on the switcher.
**HDBaseT_Rec (1-64)_Baud	Select the baud rate for the RS232 port on the HDBaseT Receiver



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TESTING	
OPS USED FOR TESTING:	Windows 8.1
SIMPL WINDOWS USED FOR TESTING:	4.02.65
CRES DB USED FOR TESTING:	50.05.004.00
DEVICE DATABASE:	64.07.003.00
REVISION HISTORY:	Version 1.0