

Partner: AVPro Edge
Models: MXNet USP
Device Type: Network Switching



GENERAL INFORMATION

SIMPLWINDOWS NAME:	AVPro Edge MXNet USP Encoder v1.0
CATEGORY:	AVPro Edge MXNet USP
VERSION:	v1.0
SUMMARY:	This module works in conjunction with the AVPro MXNet USP CommandProcessor v1.0 module to control one encoder of an Edge MXNet USP system. The full suite of AVPro MXNet USP modules includes: • AVPro Edge MXNet USP CommandProcessor v1.0 • AVPro Edge MXNet USP Encoder v1.0 • AVPro Edge MXNet USP Decoder v1.0 • AVPro Edge MXNet USP SerialPort v1.0 • AVPro Edge MXNet USP IRPort v1.0 • AVPro Edge MXNet USP CEC v1.0 • AVPro Edge MXNet USP DestinationRouter v1.0 • AVPro Edge MXNet USP MultiDestinationRouter v1.0 • AVPro Edge MXNet USP VW DecoderAssign v1.0 • AVPro Edge MXNet USP VW Layout v1.0 • AVPro Edge MXNet USP VW LayoutRecall v1.0 • AVPro Edge MXNet USP Matrix PresetRecall v1.0 • AVPro Edge MXNet USP Matrix Macro v1.0 • AVPro Edge MXNet USP External Stream Source v1.0 • AVPro Edge MXNet USP Digital Signage v1.0 • AVPro Edge MXNet USP Multiview Layout v1.0
GENERAL NOTES:	This module requires one instance of the AVPro MXNet USP CommandProcessor v1.0 module to register with and one instance of the AVPro MXNet USP Decoder module v1.0 to handle routing of a single input.
CRESTRON HARDWARE REQUIRED:	4-Series processor
SETUP OF CRESTRON HARDWARE:	N/A
VENDOR FIRMWARE:	MXNet USP Control Box V3.43 MXNet USP-ES v0.24.0 MXNet USP-PL v1.11.0 MXNet USP-PR v1.40.0
VENDOR SETUP:	N/A

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PARAMETERS:

Command_Processor_ID	The unique identifier of the command processor module that this module registers with.
MAC_Address_or_Device_ID	The MAC Address or Device ID (Custom Name) of the encoder used to associate this component with.
Matrix_Source_Index	The specific index of this encoder to be used on the Matrix Router module. (Minimum = 1 Maximum = 256)

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CONTROL:

Reboot	D	Pulse to reboot the encoder.
Screen_On	D	Pulse to turn on the encoder display screen.
Screen_Flash	D	Pulse to flash the encoder display screen.
Screen_Off	D	Pulse to turn off the encoder display screen.
Volume_Level_Up	D	Ramp volume up incrementally while signal is high. <i>Wallplate encoders do not support this.</i>
Volume_Level_Down	D	Ramp volume down incrementally while signal is high. <i>Wallplate encoders do not support this.</i>
Volume_Level	A	Integer value specifies the target volume level to set. Range is 0 to 100. <i>Wallplate encoders do not support this.</i>
Volume_Level_Set	D	Pulse to set the target volume specified by the Volume_Level analog signal. <i>Wallplate encoders do not support this.</i>
Volume_Mute_On	D	Pulse to set the volume to the lowest possible level. <i>Wallplate encoders do not support this.</i>
Volume_Mute_Off	D	Pulse to set the volume to the previous level prior to muting. <i>Wallplate encoders do not support this.</i>
Volume_Mute_Toggle	D	Pulse to alternate the volume mute state between on and off. <i>Wallplate encoders do not support this.</i>
Audio_Source	A	Integer value specifies the audio source value to use from the defined list. 1: HDMI 2: Analog 3: Auto <i>10G does not support this.</i>
EDID	A	Integer value specifies the EDID value to use from the defined EDID lists. <u>1G Devices</u> 1: 1080P_6CH, 2: 1080P_3D_2CH, 3: 1080P_3D_6CH, 4: 4K30Hz_3D_2CH. 5: 4K30Hz_3D_6CH, 6: 4K30Hz_3D_8CH,

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7: 1080P_2CH_HDR,
8: 1080P_6CH_HDR,
9: 1080P_3D_2CH_HDR,
10: 1080P_3D_6CH_HDR,
11: 4K30Hz_3D_2CH_HDR or 4K60Hz_3D_2CH_HDR.
12: 4K30Hz_3D_6CH_HDR or 4K60Hz_3D_6CH_HDR,
13: 4K30Hz_3D_8CH_HDR or 4K60Hz_3D_8CH_HDR,
14: 1920X1200_2D_2CH_HDR.
15: User_EDID

10G Devices

0: 1080P_2CH,
1: 1080P_6CH,
2: 1080P_3D_2CH,
3: 1080P_3D_6CH,
4: 4K30Hz_3D_2CH,
5: 4K30Hz_3D_6CH,
6: 4K30Hz_3D_8CH,
7: 4K60Hz_3D_2CH,
8: 4K60Hz_3D_6CH,
9: 4K60Hz_3D_8CH,
10: 1080P_2CH_HDR,
11: 1080P_6CH_HDR,
12: 1080P_3D_2CH_HDR,
13: 1080P_3D_6CH_HDR,
14: 4K30Hz_3D_2CH_HDR,
15: 4K30Hz_3D_6CH_HDR,
16: 4K30Hz_3D_8CH_HDR,
17: 4K60Hz_3D_2CH_HDR,
18: 4K60Hz_3D_6CH_HDR,
19: 4K60Hz_3D_8CH_HDR,
20: 1920X1200_3D_2CH_HDR

Hot_Plug_Reset

D Pulse to reset the hot plug on the device.

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FEEDBACK:

Is_Initialized	D	Digital high indicates this encoder block has been initialized with the command processor module.
Is_Online	D	Digital high indicates the encoder is online, or not online when the signal is low.
Screen_On_Fb	D	Digital high indicates the encoder front panel display screen is on, or not on when the signal is low, if applicable.
Screen_Flash_Fb	D	Digital high indicates the encoder front panel display screen is flashing, or not flashing when the signal is low, if applicable.
Screen_Off_Fb	D	Digital high indicates the encoder front panel display screen is off, or not off when the signal is low, if applicable.
Volume_Level_Fb	A	Integer value indicates the current extracted audio volume, if applicable. Range is 0 to 100.
Volume_Mute_On_Fb	D	Digital high indicates the volume level is at the lowest possible value, if applicable.
EDID_Fb	A	Integer value indicates the currently selected EDID. See EDID for list of values.
Hot_Plug_Detect_Fb	D	Digital high indicates the hot plug is detected, or not detected when the signal is low.
Connection_Rating	S	Text value indicates the current connection speed rating.
Resolution_and_Timing	S	Text value indicates the current resolution and FPS. Format example: 3840x2160p/30Hz
Colorspace	S	Text value indicates the current colorspace reported.
Bit_Depth	S	Text value indicates the current bit depth reported.
HDR_Status	S	Text value indicates the current HDR status ON or OFF.
HDCP_Status	S	Text value indicates the current HDCP status ON or OFF.
Audio_Format_Fb	S	Text value indicates the current audio format reported.
Network_Connection_Fb	S	Text value indicates the current network connection reported.
Device_Id_Fb	S	Text value indicating the device meta data for Device ID.
MAC_Address_Fb	S	Text value indicating the device meta data for MAC Address.
Snapshot_Url	S	Url to the source preview capture image.
MJPEG_Url_Small	S	Url to the MJPEG stream 960w x 540h. Only available using V2 equipment.
MJPEG_Url_Large	S	Url to the MJPEG stream 1280w x 720h. Only available using V2 equipment.



Certified Module

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TESTING:

OPS USED FOR TESTING:	CP4 2.8006.00110
SIMPL WINDOWS USED FOR TESTING:	4.3100.00
CRES DB USED FOR TESTING:	228.5000.003.00
DEVICE DATABASE:	200.44500.001.00
SYMBOL LIBRARY USED FOR TESTING:	1237
SAMPLE PROGRAM:	AVPro Edge MXNet USP v1.0 Demo.smw
REVISION HISTORY:	v1.0 – Initial Release