

Partner: AVPro Edge
Models: MXNet
Device Type: AVPro Edge MXNet



GENERAL INFORMATION

SIMPLWINDOWS NAME:	AVPro Edge MXNet Encoder v1.2
CATEGORY:	AVPro Edge MXNet
VERSION:	1.2
SUMMARY:	<p>This module works in conjunction with the AVPro MXNet CommandProcessor v1.2 module to control one encoder of an Edge MXNet system. The full suite of AVPro MXNet modules includes:</p> <ul style="list-style-type: none">• AVPro MXNet CommandProcessor v1.2• AVPro MXNet Encoder v1.2• AVPro MXNet Decoder v1.2• AVPro MXNet SerialPort v1.2• AVPro MXNet IRPort v1.2• AVPro MXNet CEC v1.2• AVPro MXNet DestinationRouter v1.2• AVPro MXNet MultiDestinationRouter v1.2• AVPro MXNet VW DecoderAssign v1.2• AVPro MXNet VW Layout v1.2• AVPro MXNet VW LayoutRecall v1.2
GENERAL NOTES:	<p>This module requires one instance of the AVPro MXNet CommandProcessor v1.2 module to register with and one instance of the AVPro MXNet Decoder module v1.2 to handle routing of a single input.</p>
CRESTRON HARDWARE REQUIRED:	4-Series processor, 3-Series processor
SETUP OF CRESTRON HARDWARE:	N/A
VENDOR FIRMWARE:	MXNet Control Box v2.28 MXNet Encoder v3.39 MXNet Decoder v4.21
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 of the encoder used to associate the module to the encoder.
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.
Volume_Level_Down	D	Ramp volume down incrementally while signal is high.
Volume_Level	A	Integer value specifies the target volume level to set. Range is 0 to 100.
Volume_Level_Set	D	Pulse to set the target volume specified by the Volume_Level analog signal.
Volume_Mute_On	D	Pulse to set the volume to the lowest possible level.
Volume_Mute_Off	D	Pulse to set the volume to the previous level prior to muting.
Volume_Mute_Toggle	D	Pulse to alternate the volume mute state between on and off.
Audio_Source	A	Integer value specifies the audio source value to use from the defined EDID list. 1: HDMI 2: Analog 3: Auto
EDID	A	Integer value specifies the EDID value to use from the defined EDID list. 1: 1080P_6CH, 2: 1080P_3D_2CH, 3: 1080P_3D_6CH, 4: 4K30Hz_3D_2CH. 5: 4K30Hz_3D_6CH, 6: 4K30Hz_3D_8CH, 7: 1080P_2CH_HDR, 8: 1080P_6CH_HDR, 9: 1080P_3D_2CH_HDR, 10: 1080P_3D_6CH_HDR, 11: 4K30Hz_3D_2CH_HDR. 12: 4K30Hz_3D_6CH_HDR, 13: 4K30Hz_3D_8CH_HDR, 14: 1920X1200_2D_2CH_HDR.

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	15: User_EDID
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.

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**TESTING:**

OPS USED FOR TESTING:	VC4 v4.0000.00007 CP4 v2.8000.00017 CP3 v1.8001.5061.26823
SIMPL WINDOWS USED FOR TESTING:	4.2000.00
CRES DB USED FOR TESTING:	215.0000.003.00
DEVICE DATABASE:	200.23500.001.00
SYMBOL LIBRARY USED FOR TESTING:	1177
SAMPLE PROGRAM:	AVPro Edge MXNet v1.2 Demo.smw
REVISION HISTORY:	v1.0 – Initial Release v1.1 – Fixed SerialPort transmitted and received data. – Made updates to allow a Wallplate Encoder to initialize with this suite. v1.2 – Isolated serial communication queue to provide device control responsiveness. – Corrected unsolicited data parsing impacting hotplug detected and resolution.