

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



GENERAL INFORMATION

SIMPLWINDOWS NAME:	AVPro Edge MXNet Encoder v2.6
CATEGORY:	AVPro Edge MXNet
VERSION:	2.6
SUMMARY:	This module works in conjunction with the AVPro MXNet CommandProcessor v2.6 module to control one encoder of an Edge MXNet system. The full suite of AVPro MXNet modules includes: • AVPro MXNet CommandProcessor v2.6 • AVPro MXNet Encoder v2.6 • AVPro MXNet Decoder v2.6 • AVPro MXNet SerialPort v2.6 • AVPro MXNet IRPort v2.6 • AVPro MXNet CEC v2.6 • AVPro MXNet DestinationRouter v2.6 • AVPro MXNet MultiDestinationRouter v2.6 • AVPro MXNet VW DecoderAssign v2.6 • AVPro MXNet VW Layout v2.6 • AVPro MXNet VW LayoutRecall v2.6 • AVPro MXNet 10G VW LayoutRecall v2.6 • AVPro MXNet Matrix PresetRecall v2.6 • AVPro MXNet Matrix Macro v2.6
GENERAL NOTES:	This module requires one instance of the AVPro MXNet CommandProcessor v2.6 module to register with and one instance of the AVPro MXNet Decoder module v2.6 to handle routing of a single input.
CRESTRON HARDWARE REQUIRED:	4-Series processor, 3-Series processor
SETUP OF CRESTRON HARDWARE:	N/A
VENDOR FIRMWARE:	MXNet 1G Control Box v2.4 MXNet 1G Encoder v3.39 MXNet 1G Decoder v4.21 MXNet 10G Control Box v3.28 MXNet 10G Encoder v1.25 MXNet 10G Decoder v1.25
VENDOR SETUP:	N/A

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



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)

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



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,

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



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.

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



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

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



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



TESTING:

OPS USED FOR TESTING: VC4 v4.0000.00007
CP4 v2.8001.00086.01
CP3 v1.8001.0214.01

SIMPL WINDOWS USED FOR TESTING: 4.2500.04

CRES DB USED FOR TESTING: 219.0500.001.00

DEVICE DATABASE: 200.28000.002.00

SYMBOL LIBRARY USED FOR TESTING: 1191

SAMPLE PROGRAM: AVPro Edge MXNet v2.6 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.
- v2.0 – Added “Offline” functionality.
 - Polling will happen more frequently but will only poll for one component’s states at a time. This prevents serial control from getting backed up behind a global system poll.
- v2.1 – Added volume support for applicable 10G decoders.
 - Added support for 10G videowall support with “10G VW Layout”
- v2.2 - Change 1G video wall input select to new faster API command
- v2.3 – Added CEC support for Encoders.
- v2.4 – Added Matrix PresetRecall and Matrix Macro module.
- V2.5 – Added video stream urls
- v2.6 – Reconnect time increased from 30 seconds to 90 seconds.