

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



GENERAL INFORMATION

SIMPLWINDOWS NAME:	AVPro Edge MXNet Decoder v2.0
CATEGORY:	AVPro Edge MXNet
VERSION:	2.0
SUMMARY:	<p>This module works in conjunction with the AVPro MXNet CommandProcessor v2.0 module to control one decoder of an Edge MXNet system. The full suite of AVPro MXNet modules includes:</p> <ul style="list-style-type: none">• AVPro MXNet CommandProcessor v2.0• AVPro MXNet Encoder v2.0• AVPro MXNet Decoder v2.0• AVPro MXNet SerialPort v2.0• AVPro MXNet IRPort v2.0• AVPro MXNet CEC v2.0• AVPro MXNet DestinationRouter v2.0• AVPro MXNet MultiDestinationRouter v2.0• AVPro MXNet VW DecoderAssign v2.0• AVPro MXNet VW Layout v2.0• AVPro MXNet VW LayoutRecall v2.0
GENERAL NOTES:	<p>This module requires one instance of the AVPro MXNet CommandProcessor v2.0 module to register with and one instance of the AVPro MXNet Encoder module v2.0 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 (Custom Name) of the decoder used to associate this component with.
Matrix_Destination_Index	The specific index of this decoder to be used on the Destination Router module. (Minimum = 1 Maximum = 256)

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**CONTROL:**

Reboot	D	Pulse to reboot the Decoder.
Screen_On	D	Pulse to turn on the Decoder display screen.
Screen_Flash	D	Pulse to flash the Decoder display screen.
Screen_Off	D	Pulse to turn off the Decoder display screen.
OSD_On	D	Pulse to set the on-screen display on. <i>10G does not support this.</i>
OSD_Off	D	Pulse to set the on-screen display off. <i>10G does not support this.</i>
Resolution	A	Analog value specifies the resolution to use from the defined resolution list. Possible values include: 0: passthrough, 1: 720P50, 2: 720P60, 3: 1080P24, 4: 1080P50, 5: 1080P60, 6: 4K30, 7: 4K50, 8: 4K60
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 decoder block has been initialized with the command processor module.
Is_Online	D	Digital high indicates the decoder is online, or not online when the signal is low.
Screen_On_Fb	D	Digital high indicates the decoder front panel display screen is on, or not on when the signal is low.
Screen_Flash_Fb	D	Digital high indicates the decoder front panel display screen is flashing, or not flashing when the signal is low.
Screen_Off_Fb	D	Digital high indicates the decoder front panel display screen is off, or not off when the signal is low.
OSD_On_Fb	D	Digital high indicates the on-screen display is on, or not on when the signal is low, if applicable.
OSD_Off_Fb	D	Digital high indicates the on-screen display is off, or not off when the signal is low, if applicable.
Resolution_Fb	A	Integer value indicates the currently selected resolution value.
VideoWall_Count_Fb	A	Integer value indicates the number of video wall layouts this decoder is included in.
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: 3840x2160, 30.
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.

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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: 200.27500.001.00

SYMBOL LIBRARY USED FOR TESTING: 1189

SAMPLE PROGRAM: AVPro Edge MXNet v2.0 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.