

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



## GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	AVPro Edge MXNet Encoder v1.0
<b>CATEGORY:</b>	AVPro Edge MXNet
<b>VERSION:</b>	1.0.0
<b>SUMMARY:</b>	<p>This module works in conjunction with the AVPro MXNet CommandProcessor v1.0 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"><li>• AVPro MXNet CommandProcessor v1.0</li><li>• AVPro MXNet Encoder v1.0</li><li>• AVPro MXNet Decoder v1.0</li><li>• AVPro MXNet SerialPort v1.0</li><li>• AVPro MXNet IRPort v1.0</li><li>• AVPro MXNet CEC v1.0</li><li>• AVPro MXNet DestinationRouter v1.0</li><li>• AVPro MXNet MultiDestinationRouter v1.0</li><li>• AVPro MXNet VW DecoderAssign v1.0</li><li>• AVPro MXNet VW Layout v1.0</li><li>• AVPro MXNet VW LayoutRecall v1.0</li></ul>
<b>GENERAL NOTES:</b>	<p>This module requires one instance of the AVPro MXNet CommandProcessor v1.0 module to register with and one instance of the AVPro MXNet Decoder module v1.0 to handle routing of a single input.</p>
<b>CRESTRON HARDWARE REQUIRED:</b>	4-Series processor, 3-Series processor
<b>SETUP OF CRESTRON HARDWARE:</b>	N/A
<b>VENDOR FIRMWARE:</b>	MXNet Control Box v2.03 MXNet Encoder v3.33 MXNet Decoder v4.18
<b>VENDOR SETUP:</b>	N/A

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



## PARAMETERS:

<b>Command_Processor_ID</b>	The unique identifier of the command processor module that this module registers with.
<b>MAC_Address_or_Device_ID</b>	The MAC address or device ID of the encoder used to associate the module to the encoder.
<b>Matrix_Source_Index</b>	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: AVPro Edge MXNet



**CONTROL:**

<b>Reboot</b>	D	Pulse to reboot the encoder.
<b>Screen_On</b>	D	Pulse to turn on the encoder display screen.
<b>Screen_Flash</b>	D	Pulse to flash the encoder display screen.
<b>Screen_Off</b>	D	Pulse to turn off the encoder display screen.
<b>Volume_Level_Up</b>	D	Ramp volume up incrementally while signal is high.
<b>Volume_Level_Down</b>	D	Ramp volume down incrementally while signal is high.
<b>Volume_Level</b>	A	Integer value specifies the target volume level to set. Range is 0 to 100.
<b>Volume_Level_Set</b>	D	Pulse to set the target volume specified by the <b>Volume_Level</b> analog signal.
<b>Volume_Mute_On</b>	D	Pulse to set the volume to the lowest possible level.
<b>Volume_Mute_Off</b>	D	Pulse to set the volume to the previous level prior to muting.
<b>Volume_Mute_Toggle</b>	D	Pulse to alternate the volume mute state between on and off.
<b>Audio_Source</b>	A	Integer value specifies the audio source value to use from the defined EDID list. 1: HDMI 2: Analog 3: Auto
<b>EDID</b>	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.

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



	15: User_EDID
Hot_Plug_Reset	D Pulse to reset the hot plug on the device.

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

**FEEDBACK:**

<b>Is_Initialized</b>	D	Digital high indicates this encoder block has been initialized with the command processor module.
<b>Is_Online</b>	D	Digital high indicates the encoder is online, or not online when the signal is low.
<b>Screen_On_Fb</b>	D	Digital high indicates the encoder front panel display screen is on, or not on when the signal is low.
<b>Screen_Flash_Fb</b>	D	Digital high indicates the encoder front panel display screen is flashing, or not flashing when the signal is low.
<b>Screen_Off_Fb</b>	D	Digital high indicates the encoder front panel display screen is off, or not off when the signal is low.
<b>Volume_Level_Fb</b>	A	Integer value indicates the current extracted audio volume. Range is 0 to 100.
<b>Volume_Mute_On_Fb</b>	D	Digital high indicates the volume level is at the lowest possible value.
<b>EDID_Fb</b>	A	Integer value indicates the currently selected EDID. See EDID for list of values.
<b>Hot_Plug_Detect_Fb</b>	D	Digital high indicates the hot plug is detected, or not detected when the signal is low.
<b>Connection_Rating</b>	S	Text value indicates the current connection speed rating.
<b>Resolution_and_Timing</b>	S	Text value indicates the current resolution and FPS. Format example: 3840x2160p/30Hz
<b>Colorspace</b>	S	Text value indicates the current colorspace reported.
<b>Bit_Depth</b>	S	Text value indicates the current bit depth reported.
<b>HDR_Status</b>	S	Text value indicates the current HDR status ON or OFF.
<b>HDCP_Status</b>	S	Text value indicates the current HDCP status ON or OFF.
<b>Audio_Format_Fb</b>	S	Text value indicates the current audio format reported.
<b>Network_Connection_Fb</b>	S	Text value indicates the current network connection reported.

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

**TESTING:**

	VC4 v4.0000.00007
<b>OPS USED FOR TESTING:</b>	CP4 v2.8000.00017 CP3 v1.8001.5061.26823
<b>SIMPL WINDOWS USED FOR TESTING:</b>	4.2000.00
<b>CRES DB USED FOR TESTING:</b>	215.0000.003.00
<b>DEVICE DATABASE:</b>	200.23500.001.00
<b>SYMBOL LIBRARY USED FOR TESTING:</b>	1177
<b>SAMPLE PROGRAM:</b>	AVPro Edge MXNet v1.0 Demo.smw
<b>REVISION HISTORY:</b>	v1.0 – Initial Release