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

GENERAL INFORMATION

SIMPLWINDOWS NAME:	AVPro Edge MXNet Decoder v1.2
CATEGORY:	AVPro Edge MXNet
VERSION:	1.2
SUMMARY:	This module works in conjunction with the AVPro MXNet CommandProcessor v1.2 module to control one decoder of an Edge MXNet system. The full suite of AVPro MXNet modules includes: • 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:	This module requires one instance of the AVPro MXNet CommandProcessor v1.2 module to register with and one instance of the AVPro MXNet Encoder module v1.2 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 Control Box v2.28 MXNet Encoder v3.39 MXNet Decoder v4.21
VENDOR SETUP:	N/A

PARAMETERS:

Command_Processor_ID	The unique identifier of the command processor module that this module registers with.
MAC_Address_or_Device_ID	The device ID of the decoder used to associate the module to the Decoder.
Matrix_Destination_Index	The specific index of this decoder to be used on the Destination Router module. (Minimum = 1 | Maximum = 256)

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.
OSD_Off	D	Pulse to set the on-screen display off.
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.

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.

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.