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

GENERAL INFORMATION

SIMPLWINDOWS NAME:	AVPro Edge MXNet Encoder v2.0
CATEGORY:	AVPro Edge MXNet
VERSION:	2.0
SUMMARY:	This module works in conjunction with the AVPro MXNet CommandProcessor v2.0 module to control one encoder of an Edge MXNet system. The full suite of AVPro MXNet modules includes: • 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:	This module requires one instance of the AVPro MXNet CommandProcessor v2.0 module to register with and one instance of the AVPro MXNet Decoder module v2.0 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

©2004 Crestron Electronics, Inc.
15 Volvo Drive • Rockleigh, NJ 07647
800.237.2041 / 201.767.3400

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

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)

©2004 Crestron Electronics, Inc.
15 Volvo Drive • Rockleigh, NJ 07647
800.237.2041 / 201.767.3400

Crestron Certified Integrated Partner Modules can be found archived on our website in the Design Center. For more information please contact our Technical Sales Department at techsales@crestron.com. The information contained on this document is privileged and confidential and for use by Crestron Authorized Dealers, CAIP Members, A+ Partners and Certified Integrated Partners only. *Specifications subject to change without notice.*

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

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 list. 1: HDMI 2: Analog 3: Auto *10G does not support this.*
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, 7: 1080P_2CH_HDR, 8: 1080P_6CH_HDR, 9: 1080P_3D_2CH_HDR, 10: 1080P_3D_6CH_HDR,

©2004 Crestron Electronics, Inc.
15 Volvo Drive • Rockleigh, NJ 07647
800.237.2041 / 201.767.3400

Crestron Certified Integrated Partner Modules can be found archived on our website in the Design Center. For more information please contact our Technical Sales Department at techsales@crestron.com. The information contained on this document is privileged and confidential and for use by Crestron Authorized Dealers, CAIP Members, A+ Partners and Certified Integrated Partners only. *Specifications subject to change without notice.*

		11: 4K30Hz_3D_2CH_HDR | 4K60Hz_3D_2CH_HDR. 12: 4K30Hz_3D_6CH_HDR | 4K60Hz_3D_6CH_HDR, 13: 4K30Hz_3D_8CH_HDR | 4K60Hz_3D_8CH_HDR, 14: 1920X1200_2D_2CH_HDR. 15: User_EDID <u>10G Devices</u> 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.

©2004 Crestron Electronics, Inc.
15 Volvo Drive • Rockleigh, NJ 07647
800.237.2041 / 201.767.3400

www.crestron.com
Crestron Certified Integrated Partner Modules can be found archived on our website in the Design Center. For more information please contact our Technical Sales Department at techsales@crestron.com. The information contained on this document is privileged and confidential and for use by Crestron Authorized Dealers, CAIP Members, A+ Partners and Certified Integrated Partners only. *Specifications subject to change without notice.*

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

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.

©2004 Crestron Electronics, Inc.
15 Volvo Drive • Rockleigh, NJ 07647
800.237.2041 / 201.767.3400

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

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.

©2004 Crestron Electronics, Inc.
15 Volvo Drive • Rockleigh, NJ 07647
800.237.2041 / 201.767.3400

Crestron Certified Integrated Partner Modules can be found archived on our website in the Design Center. For more information please contact our Technical Sales Department at techsales@crestron.com. The information contained on this document is privileged and confidential and for use by Crestron Authorized Dealers, CAIP Members, A+ Partners and Certified Integrated Partners only. *Specifications subject to change without notice.*