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

GENERAL INFORMATION

SIMPLWINDOWS NAME:	AVPro Edge MXNet CommandProcessor v1.2
CATEGORY:	AVPro Edge MXNet
VERSION:	1.2
SUMMARY:	This module works in conjunction with the suite of AVPro Edge MXNet component modules to control input to output routing through an MXNet system. A component module is any module that registers with the command processor module for control and feedback of a particular feature of the switcher. The full suite of 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 or more instances of the AVPro Edge MXNet component modules listed above to control and get feedback from the connected system. For each encoder and decoder in the system, add an Encoder or Decoder block as appropriate. Most other blocks require the use of these blocks for initialization and control.
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 this module that component modules register with.

IP_Address_or_Hostname   The IP address or hostname of the control box to connect to.

Poll_Time   The elapsed time the module will poll for all current states.

CONTROL:

Connect	D	Pulse or set high to initiate communication with the control box.
Disconnect	D	Pulse to terminate communication with the control box and clear all current state information from the module.
Reinitialize	D	Pulse to cause the command process to reconnect to the control box and refresh all state information.
IP_Address_or_Hostname	S	The IP address or hostname of the control box to connect to.
Debug_Level	A	Integer value specifies the level of messages that appear in the debug window. • 1 – Default • 2 – Warning • 3 – Error • 4 – Critical
Debug_Enable	D	Pulse to toggle debug state between enabled and disabled. While enabled, debug output will be printed to the control processor console.
Passthru_Command	S	Text value specifies a command to be sent directly to the connected control box. Allows for sending commands that may not be supported directly by the module suite. The command format must comply with hardware command protocol.
Send_Passthru_Command	D	Pulse to send the passthru command to the connected control box specified in the **Passthru_Command** serial input.
Reboot_Controller	D	Pulse to reboot the control box.
Reboot_System	D	Pulse to reboot all encoders and decoders and the control box.
AllScreen_On	D	Pulse to turn on front panel display lights for all encoders and decoders.
AllScreen_Flash	D	Pulse to flash front panel display lights for all encoders and decoders.
AllScreen_Off	D	Pulse to turn off front panel display lights for all encoders and decoders.
ALLOSID_On	D	Pulse to turn on on-screen display for all decoders.
AllOSID_Off	D	Pulse to turn off on-screen display for all decoders.

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FEEDBACK:

Is_Communicating	D	Digital high indicates that the module is successfully communicating with the control box specified by the module IP Address parameter, or not communicating when the signal is low.
Is_Initialized	D	Digital high indicates the module has synchronized all state information from the control box and completed initialization, or not synchronized when the signal is low.
IP_Address_or_Hostname_Fb	S	Text value indicates the current IP address used to connect to the control box.

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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.