

Partner: AVPro Edge
Models: MXNet USP
Device Type: Network Switching



GENERAL INFORMATION

SIMPLWINDOWS NAME:	AVPro Edge MXNet USP CommandProcessor v1.0
CATEGORY:	AVPro Edge MXNet USP
VERSION:	v1.0
SUMMARY:	This module works in conjunction with the suite of AVPro Edge MXNet USP component modules to control input to output routing through an MXNet USP 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 Edge MXNet USP CommandProcessor v1.0 • AVPro Edge MXNet USP Encoder v1.0 • AVPro Edge MXNet USP Decoder v1.0 • AVPro Edge MXNet USP SerialPort v1.0 • AVPro Edge MXNet USP IRPort v1.0 • AVPro Edge MXNet USP CEC v1.0 • AVPro Edge MXNet USP DestinationRouter v1.0 • AVPro Edge MXNet USP MultiDestinationRouter v1.0 • AVPro Edge MXNet USP VW DecoderAssign v1.0 • AVPro Edge MXNet USP VW Layout v1.0 • AVPro Edge MXNet USP VW LayoutRecall v1.0 • AVPro Edge MXNet USP Matrix PresetRecall v1.0 • AVPro Edge MXNet USP Matrix Macro v1.0 • AVPro Edge MXNet USP External Stream Source v1.0 • AVPro Edge MXNet USP Digital Signage v1.0 • AVPro Edge MXNet USP Multiview Layout v1.0
GENERAL NOTES:	This module requires one or more instances of the AVPro Edge MXNet USP 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. The module suite will attempt to initialize all components provided in the design. If a device is missing or determined to be offline by the MXNet USP control box, that endpoint component and all associated control components will be registered as "Offline" and be bypassed for initialization.
CRESTRON HARDWARE REQUIRED:	4-Series processor
SETUP OF CRESTRON HARDWARE:	N/A
VENDOR FIRMWARE:	MXNet USP Control Box V3.43 MXNet USP-ES v0.24.0 MXNet USP-PL v1.11.0 MXNet USP-PR v1.40.0

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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.

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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.
Offline_Count_Fb	A	Integer value specifying the number of components that have been marked "offline" to be bypassed for initialization.
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:	CP4 2.8006.00110
SIMPL WINDOWS USED FOR TESTING:	4.3100.00
CRES DB USED FOR TESTING:	228.5000.003.00
DEVICE DATABASE:	200.44500.001.00
SYMBOL LIBRARY USED FOR TESTING:	1237
SAMPLE PROGRAM:	AVPro Edge MXNet USP v1.0 Demo.smw
REVISION HISTORY:	v1.0 – Initial Release