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

GENERAL INFORMATION

SIMPLWINDOWS NAME:	AVPro Edge MXNet DestinationRouter v2.6
CATEGORY:	AVPro Edge MXNet
VERSION:	2.6
SUMMARY:	This module works in conjunction with the AVPro MXNet CommandProcessor v2.6 module and the AVPro MXNet Encoder/Decoder v2.6 modules to process routes between encoders and decoders. The full suite of AVPro MXNet modules includes: • AVPro MXNet CommandProcessor v2.6 • AVPro MXNet Encoder v2.6 • AVPro MXNet Decoder v2.6 • AVPro MXNet SerialPort v2.6 • AVPro MXNet IRPort v2.6 • AVPro MXNet CEC v2.6 • AVPro MXNet DestinationRouter v2.6 • AVPro MXNet MultiDestinationRouter v2.6 • AVPro MXNet VW DecoderAssign v2.6 • AVPro MXNet VW Layout v2.6 • AVPro MXNet VW LayoutRecall v2.6 • AVPro MXNet 10G VW LayoutRecall v2.6 • AVPro MXNet Matrix PresetRecall v2.6 • AVPro MXNet Matrix Macro v2.6
GENERAL NOTES:	This module requires one instance of the AVPro MXNet CommandProcessor v2.6 module to register with, a matching instance of the AVPro MXNet Encoder v2.6 for each encoder for source routing, and a matching instance of the AVPro MXNet Decoder v2.6 for the decoder to route to.
CRESTRON HARDWARE REQUIRED:	4-Series processor, 3-Series processor
SETUP OF CRESTRON HARDWARE:	N/A
VENDOR FIRMWARE:	Net 1G Control Box v2.4 MXNet 1G Encoder v3.39 MXNet 1G Decoder v4.21 MXNet 10G Control Box v3.28 MXNet 10G Encoder v1.25 MXNet 10G Decoder v1.25
VENDOR SETUP:	N/A

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PARAMETERS:

Command_Processor_ID	The unique identifier of the command processor module that this module registers with.
Matrix_Destination_Index	Specifies the unique index of the decoder this module is associated with. The AVPro MXNet Decoder v2.6 with each associated Destination_Index must be added to the program for the module to know which decoder in your system to route.
MultiRoute Group ID List	Specifies the group ID for this destination router. When assigned a MultiRoute Group ID, this destination router can receive route commands as part of a broadcast from the AVPro MXNet MultiDestinationRouter module. This destination router can be assigned multiple groups, each group ID should be specified in a comma-separated list. EX: 1,5,6

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CONTROL:

Source_Route	A	Analog value specifies the encoder with the matching Matrix Source Index parameter. To clear the route, use a 0 on this signal. The AVPro MXNet Encoder v2.6 with each associated Source_Index must be added to the program for the module to know which encoder in your system to route.
Take_Route	D	Pulse to send the enabled route types from the encoder specified by the Source_Route analog input to the decoder specified by the Matrix Destination Index.
Enable_Video	D	Latch high to enable video routing from the source route specified by the **Source_Route** analog input.
Enable_Audio	D	Latch high to enable audio routing from the source route specified by the **Source_Route** analog input.
Enable_USB	D	Latch high to enable USB routing from the source route specified by the **Source_Route** analog input.
Enable_Infrared	D	Latch high to enable infrared routing from the source route specified by the **Source_Route** analog input.
Enable_Serial	D	Latch high to enable serial routing from the source route specified by the **Source_Route** analog input.

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FEEDBACK:

Is_Initialized	D	Digital high indicates this module has been initialized with the command processor module.
Is_Online_Fb	D	High to indicate that the matching endpoint is online and available for control. If the device is offline, no control will work.
Source_Video_Fb	A	Integer value indicates the routed video source to decoder with the matching Matrix Destination Index.
Source_Audio_Fb	A	Integer value indicates the routed audio source to decoder with the matching Matrix Destination Index.
Source_USB_Fb	A	Integer value indicates the routed USB source to decoder with the matching Matrix Destination Index.
Source_Infrared_Fb	A	Integer value indicates the routed infrared source to decoder with the matching Matrix Destination Index.
Source_Serial_Fb	A	Integer value indicates the routed serial source to decoder with the matching Matrix Destination Index.

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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:	200.28000.002.00
SYMBOL LIBRARY USED FOR TESTING:	1191
SAMPLE PROGRAM:	AVPro Edge MXNet v2.6 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. v2.1 – Added volume support for applicable 10G decoders. – Added support for 10G videowall support with “10G VW Layout” v2.2 - Change 1G video wall input select to new faster API command v2.3 – Added CEC support for Encoders. v2.4 – Added Matrix PresetRecall and Matrix Macro module. V2.5 – Added video preview urls to encoder module. v2.6 – Reconnect time increased from 30 seconds to 90 seconds.

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