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

GENERAL INFORMATION

SIMPLWINDOWS NAME:	AVPro Edge MXNet SerialPort v2.6
CATEGORY:	AVPro Edge MXNet
VERSION:	2.6
SUMMARY:	This module works in conjunction with the AVPro MXNet CommandProcessor v2.6 module for RS-232 control of one MXNet encoder or decoder. 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 and a matching instance of the AVPro MXNet Decoder v2.6 or AVPro MXNet Encoder v2.6 Serial Control will not pass to the endpoint until the command processor is initialized. This is to limit the amount of traffic during the full system initialization process.
CRESTRON HARDWARE REQUIRED:	4-Series processor, 3-Series processor
SETUP OF CRESTRON HARDWARE:	N/A
VENDOR FIRMWARE:	MXNet 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.
Endpoint_Type	Select if this module will be associated with an encoder or decoder.
Matrix _Index	Specifies the unique index of the **Endpoint_Type** this module is associated with.
Baud_Rate	The baud rate setting for RS-232 communication. Possible values include 300-15200 bps.
Data_Bits	The data bits setting for RS-232 communication. Possible values include: • 7 • 8 (default)
Stop_Bits	The stop bits setting for RS-232 communication. Possible values include: • 1 (default) • 2
Data_Parity	The data parity setting for RS-232 communication. Possible values include: • N (none, default) • E (event) • O (odd)
Command_1_String.. **Command_10_String**	Text value of each property specifies the command to be sent by the corresponding **Command_X_Send** digital signal. The module will accept ASCII and standard Crestron formatted Hex values. The following examples are all valid: • Hello\r • Hello\x0D\x0A • \x48\x65\x6C\x6C\x6F\r • \x48\x65\x6C\x6C\x6F\x0D\x0A

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CONTROL:

Crestron_Comm_Spec	S	Text value specifies the formatted information to configure the RS-232 port.
RS232_TX	S	Text value indicates a manual command to be sent.
RS232_Send	D	Pulse to send the command specified by the **RS232_TX** serial signal.
Command_1_Send.. Command_10_Send	D	Pulse signal 1 through 10 to send the command of the corresponding **Command_X_String** property. The module will accept ASCII and Hex as per Crestron standard. The following examples are all valid: • Hello\r • Hello\x0D\x0A • \x48\x65\x6C\x6C\x6F\r • \x48\x65\x6C\x6C\x6F\x0D\x0A

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FEEDBACK:

Is_Initialized	D	Digital high indicates this RS-232 port block has been initialized with the command processor module and the comm port on the endpoint has been set.
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.
RS232_RX	S	Text value indicates data received from the device.

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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 preview urls to encoder module. v2.6 – Reconnect time increased from 30 seconds to 90 seconds.

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