

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



## GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	AVPro Edge MXNet SerialPort v2.0
<b>CATEGORY:</b>	AVPro Edge MXNet
<b>VERSION:</b>	2.0
<b>SUMMARY:</b>	<p>This module works in conjunction with the AVPro MXNet CommandProcessor v2.0 module for RS-232 control of one MXNet encoder or decoder. The full suite of AVPro MXNet modules includes:</p> <ul style="list-style-type: none"><li>• AVPro MXNet CommandProcessor v2.0</li><li>• AVPro MXNet Encoder v2.0</li><li>• AVPro MXNet Decoder v2.0</li><li>• AVPro MXNet SerialPort v2.0</li><li>• AVPro MXNet IRPort v2.0</li><li>• AVPro MXNet CEC v2.0</li><li>• AVPro MXNet DestinationRouter v2.0</li><li>• AVPro MXNet MultiDestinationRouter v2.0</li><li>• AVPro MXNet VW DecoderAssign v2.0</li><li>• AVPro MXNet VW Layout v2.0</li><li>• AVPro MXNet VW LayoutRecall v2.0</li></ul>
<b>GENERAL NOTES:</b>	<p>This module requires one instance of the AVPro MXNet CommandProcessor v2.0 module to register with and a matching instance of the AVPro MXNet Decoder v2.0 or AVPro MXNet Encoder v2.0</p> <p>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.</p>
<b>CRESTRON HARDWARE REQUIRED:</b>	4-Series processor, 3-Series processor
<b>SETUP OF CRESTRON HARDWARE:</b>	N/A
<b>VENDOR FIRMWARE:</b>	MXNet Control Box v2.28 MXNet Encoder v3.39 MXNet Decoder v4.21
<b>VENDOR SETUP:</b>	N/A

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## PARAMETERS:

<b>Command_Processor_ID</b>	The unique identifier of the command processor module that this module registers with.
<b>Endpoint_Type</b>	Select if this module will be associated with an encoder or decoder.
<b>Matrix_Index</b>	Specifies the unique index of the <b>Endpoint_Type</b> this module is associated with.
<b>Baud_Rate</b>	The baud rate setting for RS-232 communication. Possible values include 300-15200 bps.
<b>Data_Bits</b>	<div>The data bits setting for RS-232 communication. Possible values include:<ul style="list-style-type: none"><li>• 7</li><li>• 8 (default)</li></ul></div>
<b>Stop_Bits</b>	<div>The stop bits setting for RS-232 communication. Possible values include:<ul style="list-style-type: none"><li>• 1 (default)</li><li>• 2</li></ul></div>
<b>Data_Parity</b>	<div>The data parity setting for RS-232 communication. Possible values include:<ul style="list-style-type: none"><li>• N (none, default)</li><li>• E (event)</li><li>• O (odd)</li></ul></div>
<b>Command_1_String..</b> <b>Command_10_String</b>	<div>Text value of each property specifies the command to be sent by the corresponding <b>Command_X_Send</b> digital signal.</div> <div>The module will accept ASCII and standard Crestron formatted Hex values.</div> <div>The following examples are all valid:<ul style="list-style-type: none"><li>• Hello\r</li><li>• Hello\x0D\x0A</li><li>• \x48\x65\x6C\x6C\x6F\r</li><li>• \x48\x65\x6C\x6C\x6F\x0D\x0A</li></ul></div>

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## CONTROL:

<b>Crestron_Comm_Spec</b>	S	Text value specifies the formatted information to configure the RS-232 port.
<b>RS232_TX</b>	S	Text value indicates a manual command to be sent.
<b>RS232_Send</b>	D	Pulse to send the command specified by the <b>RS232_TX</b> serial signal.
<b>Command_1_Send.. Command_10_Send</b>	D	<p>Pulse signal 1 through 10 to send the command of the corresponding <b>Command_X_String</b> property.</p> <p>The module will accept ASCII and Hex as per Crestron standard.</p> <p>The following examples are all valid:</p> <ul style="list-style-type: none"><li>• Hello\r</li><li>• Hello\x0D\x0A</li><li>• \x48\x65\x6C\x6C\x6F\r</li><li>• \x48\x65\x6C\x6C\x6F\x0D\x0A</li></ul>

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## FEEDBACK:

<b>Is_Initialized</b>	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.
<b>Is_Online_Fb</b>	D	High to indicate that the matching endpoint is online and available for control. If the device is offline, no control will work.
<b>RS232_RX</b>	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:** 200.27500.001.00

**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.