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# CRESTRON Module Interface Specification

for the

## Vision HDbiT HDMI Extender System



**Partner: AT Controls Pty Ltd**  
**Model: Vision HDbitT HDMI Extender Switcher**  
**Device Type: Switcher**

## GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	Vision_HDbitT_v1_0_0
<b>CATEGORY:</b>	Switcher
<b>VERSION:</b>	1.0.0
<b>SUMMARY:</b>	This module controls the Vision HDbitT HDMI Extender Transmitters and Receivers
<b>GENERAL NOTES:</b>	<p>This module will connect to and control either a Transmitter or Receiver and will provide status of the device.</p> <p>The Vision TX and RX devices respond back via a separate connection to the one used for control (TCP_CLIENT) and therefore a parameter for defining the Crestron processor's IP Address is required.</p>
<b>CRESTRON HARDWARE REQUIRED:</b>	3-series processor
<b>SETUP OF CRESTRON HARDWARE:</b>	This module utilises it's own TCP_CLIENT and TCP_SERVER and has no dependencies
<b>VENDOR FIRMWARE:</b>	Any firmware version

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**PARAMETER:**

<b>VisionIPAddress</b>	The IP Address of the Vision TX or RX device <i>Note: This must be defined in ##.##.##.## format (This is a restriction imposed by the Vision device)</i>
<b>VisionIPPort</b>	The IP Port used for connection to the Vision TX or RX device <i>Note: By default this is 9001 and does not need to be entered if this port is used</i>
<b>OurOwnIPdefault</b>	The IP Address of the Crestron processor this module resides in <i>Note: If not defined, the control will be slow and no device data can be gathered</i>

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### CONTROL:

<b>InitialiseData</b>	D	Pulse to trigger a gather of all data from the unit <i>Note: Data is gathered upon initialisation of the program as well</i>
<b>UpdateStatus</b>	D	Pulse to trigger an update of the status feedback fields
<b>SetGroupIDKeypad_0-9</b>	D	Pulse to enter the respective keypad number into the Group ID select number <i>Note: This method acts just like the device's own IR remote</i> <i>When only one number is entered there is a 5 second delay to select that Group ID (channel)</i> <i>When a second number is entered the 2 digit number is selected immediately</i>
<b>SetGroupID</b>	A	Submit a number 0-99 to directly select that Group ID (channel)
<b>SetVisionIPAddress</b>	S	Setting this value will set the IP Address of the Vision device to connect/control <i>Note: This allows a method of setting from code and overwrites the setting from "VisionIPAddress" parameter</i>
<b>SetVisionIPPort</b>	S	Setting this value will set the IP Port of the Vision device to connect/control <i>Note: This allows a method of setting from code and overwrites the setting from "VisionIPPort" parameter</i>
<b>SetVisionDeviceName</b>	S	Setting this value will set the actual name of the Vision device <i>Note: The maximum name length is 32 characters</i>
<b>SetOurOwnIP</b>	S	Setting this value will set the IP Address of the Crestron control processor this module resides in <i>Note: This allows a method of setting from code and overwrites the setting from "OurOwnIPdefault" parameter</i>

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### FEEDBACK:

<b>DataInitialised_FB</b>	D	Signal is high once the module has successfully received all required data from the Vision device
<b>IP_Connected_FB</b>	A	Indicates the state of the IP Connection to the Vision device 0 = Not Attempting 1 = Waiting on Connection 2 = Connected 3 = Connection Failed 4 = Connection Broken Remotely 5 = Connection Broken Locally 6 - 8 are not applicable as they refer to DNS lookup
<b>Brand_FB</b>	S	Text description of the Vision device BRAND
<b>Model_FB</b>	S	Text description of the Vision device MODEL
<b>GroupID_FB</b>	S	Text of the Group ID (channel) selected on the Vision device
<b>DeviceName_FB</b>	S	Text description of the Vision device NAME
<b>MAC_Address_FB</b>	S	Text description of the Vision device MAC ADDRESS
<b>DebugOut</b>	S	Text updates of code processing

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<b>TESTING:</b>	
<b>OPS USED FOR TESTING:</b>	RMC3: v1.501.2960.30279
<b>SIMPL WINDOWS USED FOR TESTING:</b>	4.09.04
<b>SIMPL+ WINDOWS USED FOR TESTING:</b>	4.04.01
<b>CRES DB USED FOR TESTING:</b>	69.05.006.00
<b>DEVICE DATABASE:</b>	95.05.002.00
<b>SYMPOL LIBRARY USED FOR TESTING:</b>	1066
<b>SAMPLE PROGRAM:</b>	Vision Module Testbench
<b>REVISION HISTORY:</b>	v1.0.0 Initial Release (21/09/2018)