
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

SIMPLWINDOWS NAME:	Vision_HDbitT_v1_0_0
CATEGORY:	Switcher
VERSION:	1.0.0
SUMMARY:	This module controls the Vision HDbitT HDMI Extender Transmitters and Receivers
GENERAL NOTES:	<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>
CRESTRON HARDWARE REQUIRED:	3-series processor
SETUP OF CRESTRON HARDWARE:	This module utilises it's own TCP_CLIENT and TCP_SERVER and has no dependencies
VENDOR FIRMWARE:	Any firmware version

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PARAMETER:

VisionIPAddress	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>
VisionIPPort	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>
OurOwnIPdefault	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:

InitialiseData	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>
UpdateStatus	D	Pulse to trigger an update of the status feedback fields
SetGroupIDKeypad_0-9	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>
SetGroupID	A	Submit a number 0-99 to directly select that Group ID (channel)
SetVisionIPAddress	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>
SetVisionIPPort	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>
SetVisionDeviceName	S	Setting this value will set the actual name of the Vision device <i>Note: The maximum name length is 32 characters</i>
SetOurOwnIP	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:

DataInitialised_FB	D	Signal is high once the module has successfully received all required data from the Vision device
IP_Connected_FB	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
Brand_FB	S	Text description of the Vision device BRAND
Model_FB	S	Text description of the Vision device MODEL
GroupID_FB	S	Text of the Group ID (channel) selected on the Vision device
DeviceName_FB	S	Text description of the Vision device NAME
MAC_Address_FB	S	Text description of the Vision device MAC ADDRESS
DebugOut	S	Text updates of code processing

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