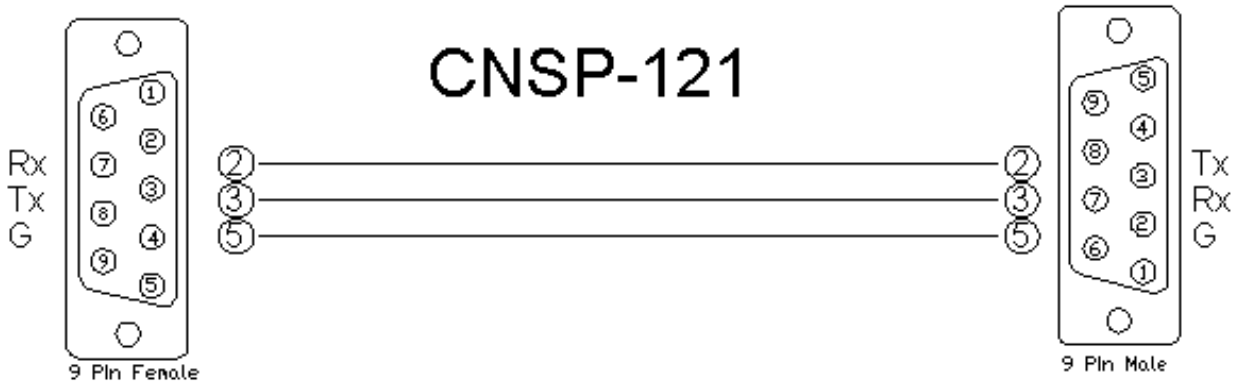
Partner: Aethra
Model: Vega and AVC8x00
Device Type: Video Conference

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Aethra Video Conference
CATEGORY:	Video Conferencing
VERSION:	1.0
SUMMARY:	This module provides control and true feedback for the Aethra video conferencing systems.
GENERAL NOTES:	This module provides control for Aethra Vega X3, X5, Star Silver and Star Gold and AVC8400 and AVC8500 video conferencing systems. It also provides true feedback. The Initialize input must be pulsed to start communications. This should be pulsed any time there is a power loss. The RS-232 cable must be connected to the data port on the AVC8400.
CRESTRON HARDWARE REQUIRED:	C2I-COM6, C2-COM2/3, ST-COM
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 38400 Parity: None Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	6.00.0497
VENDOR SETUP:	Under Settings\Audio-Video-Data\Data channel data must be enabled and the MLP must be set to Proprietary.
CABLE DIAGRAM:	CNSP-121



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CONTROL:

Initialize	D	Pulse to start communications.
Control_*	D	Pulse to control the desired input. This does not select the input; it just allows control of the input.
Camera_Up/Down/Left/Right	D	Press and hold to move camera.
Camera_Zoom_In/Out	D	Press and hold to zoom the camera in and out.
Camera_Focus_In/Out	D	Press and hold to focus the camera.
Camera_Preset_*	D	Pulse to select the desired preset. If the Camera_Save_Preset_Fb output is high, this will store the current camera position in the desired preset number. If the Camera_Save_Preset_Fb is low, this will recall the desired preset.
Camera_Save_Preset	D	Pulse to enable storing a camera preset. Pulse a second time to disable storing a camera preset. This will reset after 5 seconds.
Video_Input_*	D	Pulse to select the desired video input.
PIP_On/Off/Toggle	D	Pulse to turn the PIP on and off.
PIP_*	D	Pulse to move the PIP to the desired position.
Video_Privacy_On/Off/Toggle	D	Pulse to turn the video privacy on and off.
Auto_Answer_On/Off/Toggle	D	Pulse to turn the auto answer on and off.
Volume_Up/Down	D	Press and hold to adjust the volume.
Audio_Privacy(Mic Mute)_On/Off/Toggle	D	Pulse to turn the mic mute on and off.
Dial_Call_Quality_*	D	Pulse to select the desired call quality.
Dial_Call_Type_*	D	Pulse to select the desired call type.
Dial_Call_Interface_*	D	Pulse to select the desired call interface.
Dial_Call_Aggregate_On/Off/Toggle	D	Pulse to turn aggregate calling on and off.
Dial_Call_Select_Number_*	D	Pulse to select the call number to enter.

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Clear_Both_Numbers	D	Pulse to clear both numbers.
Copy_Number_1_to_Number_2	D	Pulse to copy number 1 to number 2.
Dial_Call_Dial	D	Pulse to dial to call.
Dial_Call_Hang_Up	D	Pulse to hang up the call.
Answer_Incoming_Call	D	Pulse to answer the incoming call.
Request_Directory	D	Pulse to request the directory from the Aethra.
Directory_First/Previous/Next/Last	D	Pulse to move through the address book pages.
Directory_*	D	Pulse to select the desired directory entry.
Directory_Dial	D	Pulse to dial the selected directory entry.
DTMF	D	Pulse to dial DTMF commands. These will only be sent to the Aethra when the Aethra is in a call.
Dual_Video_On/Off/Toggle	D	Pulse to turn the dual video on and off.
Dual_Video_Source_*	D	Pulse to select the source for dual video.
Ir_Key_*	D	Pulse to send the IR commands. These emulate the IR remote.
Keyboard_*	D	Pulse to use the keyboard to enter phone numbers and IP addresses.
Numeric_Keypad_*	D	Pulse to use the numeric keypad to enter phone numbers and IP addresses.
From_Device$	S	Serial signal to be routed from a 2-way serial com port.

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FEEDBACK:

Initialize_Busy_Fb	D	High to indicate that the module is busy initializing communications with the Aethra.
Control_*_Fb	D	High to indicate which input will be controlled.
Camera_Save_Preset_Fb	D	When this is high, pulsing a camera preset input will save the current camera position in the selected preset.
Video_Input_*_Fb	D	High to indicate the currently selected video input.
PIP_On/Off_Fb	D	High to indicate the current state of the PIP.
PIP_*_Fb	D	High to indicate the current location of the PIP.
Video_Privacy_On/Off_Fb	D	High to indicate the current state of the video privacy.
Auto_Answer_On/Off_Fb	D	High to indicate the current state of the auto answer function.
Volume_Bar	A	Analog value indicating the current volume level. To be displayed using a bar graph on a touch panel.
Audio_Privacy(Mic Mute)_On/Off_Fb	D	High to indicate the current state of the audio privacy. (Mic Mute)
Dial_Call_Quality_*_Fb	D	High to indicate the currently selected call quality value that will be sent when the Dial_Call_Dial is pulsed.
Dial_Call_Type_*_Fb	D	High to indicate the currently selected call type value that will be sent when the Dial_Call_Dial input is pulsed.
Dial_Call_Interface_*_Fb	D	High to indicate the currently selected call interface value that will be sent when the Dial_Call_Dial input is pulsed.
Dial_Call_Aggregate_On/Off_Fb	D	High to indicate the currently selected aggregate state that will be sent when the Dial_Call_Dial input is pulsed.
Dial_Call_Select_Number_*_Fb	D	High to indicate which number is currently selected for entry of the phone number.
Dial_Call_Number*$	S	Serial signals indicating the current phone numbers to be dialed.
Incoming_*_Call_Fb	D	High to indicate the type of incoming call.
Request_Directory_In_Progress	D	High to indicate that the module is busy requesting the directory from the Aethra.

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Directory_*$	S	Serial signals indicating the directory entries.
Dual_Video_On/Off_Fb	D	High to indicate the current state of the dual video.
Dual_Video_Source_*_Fb	D	High to indicate the currently selected dual video source.
Keyboard_*_Fb	D	High to indicate that the shift or the cap lock is active.
Call_Status_*_Fb	D	High to indicate the current call status.
Incoming_Call_Number$	D	Serial signal indicating the number of the incoming call.
Incoming_Call_*_Fb	D	High to indicate the incoming call data.
Connect_Call_*_Fb	D	High to indicate the data for the currently connected call.
Connected_Call_Number$	S	Serial signal indicating the number for the currently connected call.
Release_Call_Cause_Code_Analog	A	Analog signal indicating the reason for a call release. A few of the cause codes are here. A complete list is available from Aethra. 16d – Normal Call Clearing 17d – User Busy 18d – No User Responding 21d – Call Rejected
To_Device$	S	Serial signal to be routed to a 2-way serial com port.

TESTING:

OPS USED FOR TESTING:	3.137
SIMPL WINDOWS USED FOR TESTING:	2.07.24
CRES DB USED FOR TESTING:	18.1.3
SYMBOL LIBRARY USED FOR TESTING:	381
SAMPLE PROGRAM:	Aethra AVC8400 Demo
REVISION HISTORY:	V. 1.0

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