

**Partner: ClearOne**  
**Model: Converge**  
**Device Type: Conferencing**



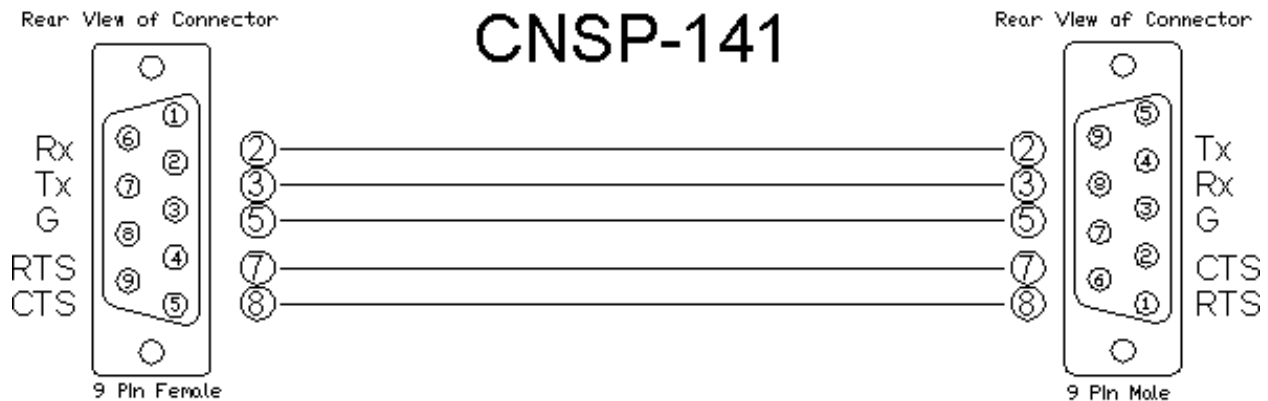
## GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	ClearOne Converge Crosspoint Attenuation v1.7
<b>CATEGORY:</b>	Conferencing
<b>VERSION:</b>	1.7
<b>SUMMARY:</b>	Allows the attenuation of any crosspoint to be adjusted/monitored
<b>GENERAL NOTES:</b>	<p>To allow for this flexibility of use, you must specify which ClearOne model is being controlled using the TYPE-ID-ASCII and TYPE-ID-HEX parameter fields. Currently valid entries are a single value (1, 2, 3, A, G, D, H, I or E and 31, 32, 33, 41, 44, 47, 48, 49 or 45) with no suffix as shown below:</p> <p>For Converge 880, use 1 and 31 For Converge TH20, use 2 and 32 For Converge 840T, use 3 and 33 For Converge 8i, use A and 41 For Converge 880T, use D and 44 For Converge SR1212, use G and 47 For Converge 880TA, use H and 48 For Converge SR1212A, use I and 49 For Converge VH20, use E and 45</p> <p>Multiple devices can be connected to the ClearOne bus and controlled from a single RS232 port. Therefore, it is also necessary to enter the Unit ID of the device being controlled. This should be entered in the UNIT-ID-ASCII parameter field as a single digit number from 0-F(for the TH20) or 0-7 (for the remaining models) with no suffix.</p> <p>This module allows the attenuation of any crosspoint on the ClearOne to be adjusted and monitored. You must first select a source using the SOURCE-* inputs, and a destination using the DEST-* inputs. After making these selections, you can pulse the POLL input to request the current level of the crosspoint. You can then use the VOLUME-UP/DOWN/SLIDER inputs to adjust the setting.</p> <p>Note that some crosspoint combinations are not valid, such as Process A to Process A. This module does not perform any error checking to be sure that a valid crosspoint was selected.</p> <p>This module should be used in conjunction with the ClearOne Converge Feedback Processor Module to monitor the state of the crosspoint attenuation. A properly constructed program would consist of a single ClearOne Converge Feedback Processor Module receiving information from the com port. The output of this module would be connected to the FROM-CLEARONE-PROCESSOR\$ inputs of as many other Converge modules are in the program. The Processor module will reformat the data into the format that the remaining ClearOne modules are programmed for.</p>

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	Note that this has only been tested with the ClearOne Converge 840T and VH20 as of this release.
<b>CRESTRON HARDWARE REQUIRED:</b>	CNX-COM2, ST-COM, 2-Series Processor, C2COM3
<b>SETUP OF CRESTRON HARDWARE:</b>	RS232 Baud: 57600 Parity: N Data Bits: 8 Stop Bits: 1 RTS/CTS Handshaking should be enabled to insure no data is lost.
<b>VENDOR FIRMWARE:</b>	4.0.0.2.4
<b>VENDOR SETUP:</b>	Flow control should be set to "on". The baud rate should be set to 57600.
<b>CABLE DIAGRAM:</b>	CNSP-141



### CONTROL:

<b>SOURCE-*</b>	D	Pulse to select the source of the crosspoint.
<b>DEST-*</b>	D	Pulse to select the destination of the crosspoint.
<b>VOLUME-UP/DOWN</b>	D	Press and hold to ramp the attenuation up or down.
<b>VOLUME-SLIDER</b>	A	Can be connected to an analog input from a touch panel to allow control from a slider object.
<b>POLL</b>	D	Pulse to poll for the current attenuation setting.

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FROM-CLEARONE-PROCESSOR\$	S	Must be routed from the ClearOne Converge Feedback Processor module.
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### FEEDBACK:

VOLUME-BAR	A	Indicates the relative level of the crosspoint attenuation. Should be routed to a bargraph.
VOLUME-TEXT\$	S	Indicates the attenuation in dB format. Should be routed to an indirect text field.
To_Device\$	S	Serial signal to be routed to a 2-way RS232 port.

### PARAMETERS:

TYPE-ID-ASCII	S	Enter 1 for 880, 2 for TH20, 3 for 840T, A for 8i, D for 880T, G for SR1212, H for 880TA, I for SR1212A and E for VH20.
TYPE-ID-HEX	S	Enter 31 for 880, 32 for TH20, 33 for 840T, 41 for 8i, 44 for 880T, 47 for SR1212, 48 for 880TA, 49 for SR1212A and 45 for VH20.
UNIT-ID-ASCII	S	Enter the unit number of the ClearOne Converge unit being controlled. Should be a number from 0-F.

### TESTING:

OPS USED FOR TESTING:	PRO2 v4.007.0004 CP3 v1.008.0040
SIMPL WINDOWS USED FOR TESTING:	v4.02.38.00
DEVICE DB USED FOR TESTING:	v55.00.002.00
CRES DB USED FOR TESTING:	v44.05.005.00
SYMBOL LIBRARY USED FOR TESTING:	v508
SAMPLE PROGRAM:	ClearOne Converge Series Demo v1.7 PRO2.smw ClearOne Converge Series Demo v1.7 CP3.smw
REVISION HISTORY:	v1.0 – Initial release v1.1 - Added Type-ID parameter values for TH20, 8i, 880, 880T and SR1212. v1.2 – Added Type-ID-HEX parameter.

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v1.3 – Added parameter ID for 880TA and SR1212A.

v1.4 - Added Type-ID parameter values for VH20. Added Line Inputs 1-4. Added VoIP Receive input. Added VoIP Transmit output.

v1.7 – Added support for later model 3-Series processors and matched all revisions to v1.7