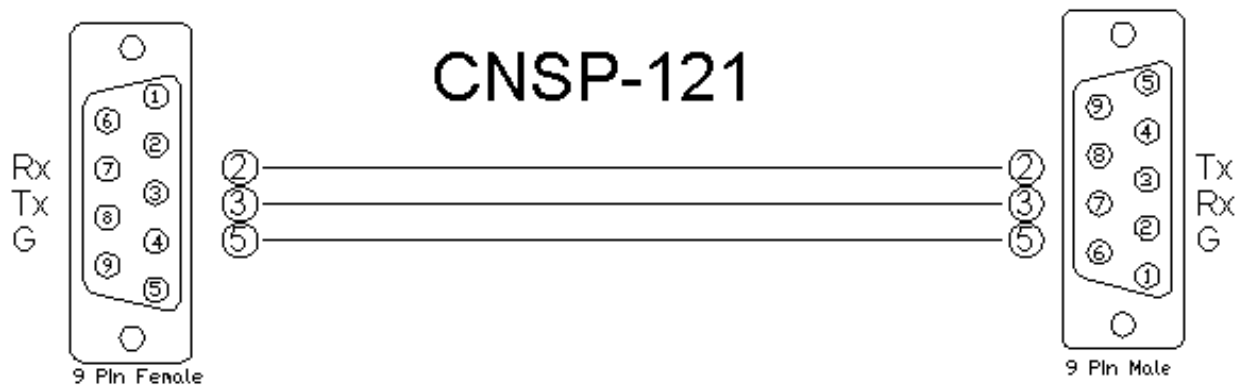


**Partner: Integra**  
**Model: DTR-5.8+6.8+7.8+8.8+DTC-9.8**  
**Device Type: Receiver/Processor**


**GENERAL INFORMATION**

<b>SIMPLWINDOWS NAME:</b>	Integra DTR-58 + DTR-68 + DTR-78 + DTR-88 Receiver + DTC-98 Preamp v3.1(TCPIP)
<b>CATEGORY:</b>	Receiver/ Processor
<b>VERSION:</b>	3.1
<b>SUMMARY:</b>	This module provides TCPIP control and feedback for the Integra DTR-5.8, DTR-6.8, DTR-7.8, DTR-8.8 Receivers and the DTC-9.8 Preamp.
<b>GENERAL NOTES:</b>	This module provides control for most functions of the Integra DTR-5.8, DTR-6.8, DTR-7.8, DTR-8.8 Receivers and the DTC-9.8 Preamp. It also provides true feedback. It was tested with the DTR-7.8 and the DTR-8.8. This module is only for TCP/IP control. For RS232 control use the "Integra DTR-58 + DTR-68 + DTR-78 + DTR-88 Receiver + DTC-98 Preamp v2" module.  This module is for 2-Series processors.
<b>CRESTRON HARDWARE REQUIRED:</b>	C2ENET-1, C2ENET-2
<b>SETUP OF CRESTRON HARDWARE:</b>	TCP/IP Port: 60000
<b>VENDOR FIRMWARE:</b>	N/A
<b>VENDOR SETUP:</b>	N/A
<b>CABLE DIAGRAM:</b>	CNSP-121



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**CONTROL:**

*_Power_On/Off/Toggle	D	Pulse to turn the power on and off for the desired zone.
*_Input_*	D	Pulse to select the input for the desired zone.
*_Volume_Up/Down	D	Press and hold to adjust the volume level for the desired zone.
*_Tuner_Key_*	D	Pulse to enter the tuner frequency for the desired zone.
Sleep_*	D	Pulse to set the sleep time or turn the sleep timer off.
Front_Panel_Display_*	D	Pulse to set the front panel display brightness.
Menu	D	Pulse to turn the menu on and off.
Up/Down/Left/Right/Enter	D	Pulse to move through the menus.
Exit	D	Pulse to exit to the previous menu level.
Audio_Out_*	D	Pulse to set the audio output.
Trigger_*_On/Off/Toggle	D	Pulse to turn the output triggers on and off.
Monitor_Out_Resolution_*	D	Pulse to set the monitor output resolution.
Surround_Mode_*	D	Pulse to select the desired surround mode.
Late_Night_*	D	Pulse to set the late night mode.
Re-EQ/Cinema_Filter_On/Off/Toggle	D	Pulse to turn the Re-EQ/Cinema Filter on and off.
Sirius_Password_Key_*	D	Pulse to enter the Sirius parental password.
Display_Cycle	D	Pulse to cycle through the front panel display text.
Net-Tune/Network_*	D	Pulse to control the Internet Radio and network music server.
HD_Radio_Blend_Mode_*	D	Pulse to select the HD Radio Blend mode.
HD_Radio_Program_*(HD*)	D	Pulse to select the HD Radio HD program.
Connect-F	D	Signal to be connected from the Connect-F output on the TCP/IP Client symbol.

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Initialize	D	Pulse to get the initial status.
From_Device\$	S	Serial signal to be routed from the RX\$ output of the TCP/IP Client.

### PARAMETER:

Port	P	This is the port number for the TCP/IP Client symbol. This is used by the System Builder software only. It is not used inside the module.
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### FEEDBACK:

*_Power_On/Off_Fb	D	High to indicate the current power state for each zone.
*_Input_*_Fb	D	High to indicate the currently selected input for each zone.
*_Volume_Bar	A	Analog value indicating the current volume level for each zone. To be displayed using a bar graph on a touch panel.
*_Volume_Mute_On/Off_Fb	D	High to indicate the current volume mute state for each zone.
*_Tuner_Frequency\$	S	Serial signal indicating the currently tuned channel.
Tuned_Station_*_HD_Radio_Fb	D	High to indicate whether the currently tuned radio station is an HD station or not.
Sleep_Time	A	Analog value indicating the current sleep time remaining.
Front_Panel_Display_*_Fb	D	High to indicate the current front panel display brightness.
Audio_Out_*_Fb	D	High to indicate the current audio out setting.
Trigger_*_On/Off_Fb	D	High to indicate the current state for each trigger.
Monitor_Out_Resolution_*_Fb	D	High to indicate the current monitor output resolution.
Surround_Mode_*_Fb	D	High to indicate the currently selected surround mode.
Late_Night_*_Fb	D	High to indicate the current late night setting.
Re-EQ/Cinema_Filter_On/Off_Fb	D	High to indicate the current state for the Re-EQ/Cinema filter.
Sirius_Password\$	S	Serial signal indicating the parental password being entered. Will show as the actual numbers being entered.
Sirius_Password_Stars\$	S	Serial signal indicating the parental password being entered. Will show as stars.

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<b>Sirius_Password_Needed_Fb</b>	D	High to indicate that the channel you are trying to listen to requires a password.
<b>Sirius_Password_Wrong_Fb</b>	D	High to indicate that the password entered is wrong.
<b>Sirius_*\$</b>	S	Serial signals indicating the channel name, channel number, title, artist and category for the currently tuned Sirius station.
<b>XM_*\$</b>	S	Serial signals indicating the channel name, channel number, title, artist and category for the currently tuned XM station.
<b>HD_Radio_Blend_Mode_*_Fb</b>	D	High to indicate the current HD Radio Blend mode.
<b>HD_Radio_Program_*(HD*)_Fb</b>	D	High to indicate the currently selected HD Radio program.
<b>HD_*\$</b>	S	Serial signals indicating the channel name, channel number, title, artist and radio details for the currently tuned HD station.
<b>HD_Radio_Program_*(HD*)_Available_Fb</b>	D	High to indicate the HD radio programs available for the currently tuned HD Radio station.
<b>Connect</b>	D	To be connected to the Connect input on the TCP/IP Client symbol.
<b>Initialize_Busy</b>	D	High to indicate that the module is getting the initial status from the receiver.
<b>To_Device\$</b>	S	Serial signal to be routed to the TX\$ output of the TCP/IP Client.

## TESTING:

<b>OPS USED FOR TESTING:</b>	3.155.1240
<b>SIMPL WINDOWS USED FOR TESTING:</b>	2.08.44
<b>CRES DB USED FOR TESTING:</b>	18.9.1
<b>SYMBOL LIBRARY USED FOR TESTING:</b>	508
<b>SAMPLE PROGRAM:</b>	Integra DTR-58 + DTR-68 + DTR-78 + DTR-88 + DTC-98 v3.1(TCPIP) Demo
<b>REVISION HISTORY:</b>	<p>V. 1.0 – Original Release</p> <p>V. 2.0 – Created two separate modules, one for RS232 only and one for TCP/IP only. Added HD Radio controls and feedback.</p> <p>V. 3.0 – Changed the TCP/IP module to fix a timing issue when used in QM or Adagio processors.</p>