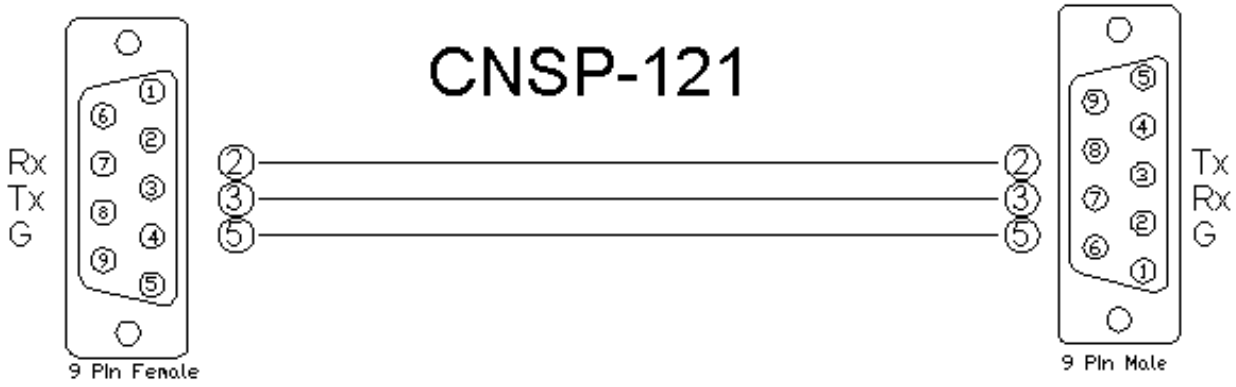
Partner: Integra
Model: DTR-5.8+6.8+7.8+8.8+DTC-9.8
Device Type: Receiver/Processor

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Integra DTR-58 + DTR-68 + DTR-78 + DTR-88 Receiver + DTC-98 Preamp v2
CATEGORY:	Receiver/ Processor
VERSION:	1.0
SUMMARY:	This module provides RS232 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.
GENERAL NOTES:	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 RS232 control. For TCP/IP control use the "Integra DTR-58 + DTR-68 + DTR-78 + DTR-88 Receiver + DTC-98 Preamp v3.1(TCPIP)" module. This module is for 2-Series processors.
CRESTRON HARDWARE REQUIRED:	C2I-COM, C2COM-2/3, ST-COM
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 9600 Parity: None Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	N/A
CABLE DIAGRAM:	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.
Initialize	D	Pulse to get the initial status.

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Device Type: Receiver/Processor

From_Device$	S	Serial signal to be routed from a 2-way serial com port.

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.
Sirius_Password_Needed_Fb	D	High to indicate that the channel you are trying to listen to requires a password.
Sirius_Password_Wrong_Fb	D	High to indicate that the password entered is wrong.
Sirius_*$	S	Serial signals indicating the channel name, channel number, title, artist and category for the currently tuned Sirius station.

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Device Type: Receiver/Processor

XM_*$	S	Serial signals indicating the channel name, channel number, title, artist and category for the currently tuned XM station.
HD_Radio_Blend_Mode_*_Fb	D	High to indicate the current HD Radio Blend mode.
HD_Radio_Program_*(HD*)_Fb	D	High to indicate the currently selected HD Radio program.
HD_*$	S	Serial signals indicating the channel name, channel number, title, artist and radio details for the currently tuned HD station.
HD_Radio_Program_*(HD*)_Available_Fb	D	High to indicate the HD radio programs available for the currently tuned HD Radio station.
Initialize_Busy	D	High to indicate that the module is getting the initial status from the receiver.
To_Device$	S	Serial signal to be routed to a 2-way serial com port.

TESTING:

OPS USED FOR TESTING:	3.155.1240
SIMPL WINDOWS USED FOR TESTING:	2.08.44
CRES DB USED FOR TESTING:	18.9.1
SYMBOL LIBRARY USED FOR TESTING:	508
SAMPLE PROGRAM:	Integra DTR-58 + DTR-68 + DTR-78 + DTR-88 + DTC-98 v2 Demo
REVISION HISTORY:	V. 1.0 – Original Release V. 2.0 – Created two separate modules, one for RS232 only and one for TCP/IP only. Added HD Radio controls and feedback. V. 3.0 – Changed the TCP/IP module to fix a timing issue when used in QM or Adagio processors.

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