

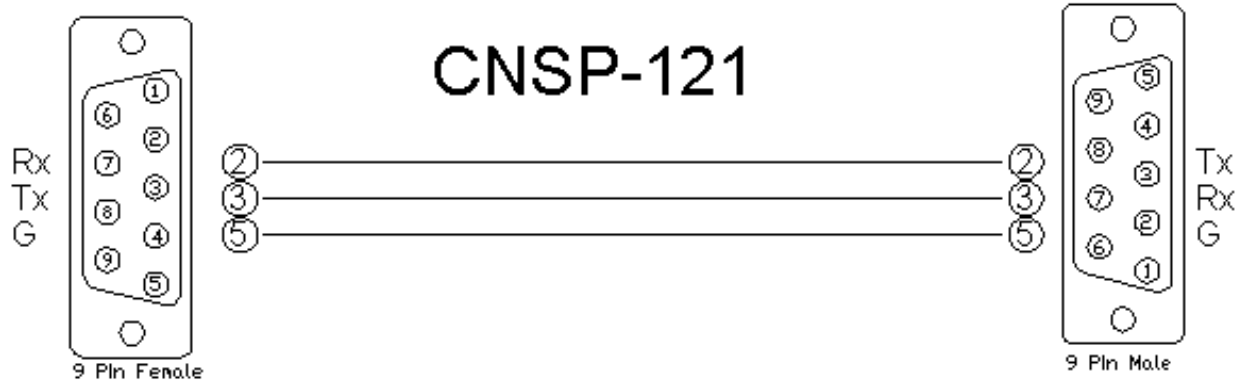
Partner: Integra
Model: DTR-70.4
Device Type: Receiver



GENERAL INFORMATION

SIMPLWINDOWS NAME:	Integra DTR-70.4 v1.2
CATEGORY:	Receiver/Processor
VERSION:	1.2
SUMMARY:	This module provides RS232 control and feedback for the Integra DTR-70.4.
GENERAL NOTES:	<p>This module provides RS232 control of the Integra DTR-70.4. It also provides true feedback. Not all functions and inputs are available for all receivers.</p> <p>NOTE This module will only work via RS232. To control the receiver via TCP/IP please use the IP module.</p> <p>NOTE: There are two tuners in this receiver. Zones 2-4 use that same tuner. If two zones have the tuner selected they will both be listening to the same station. There is one set tuner presets. Recalling preset 1 from zone 2 will recall the same station as recalling preset 1 from the other zones.</p> <p>To store a tuner preset:</p> <ol style="list-style-type: none"> 1) Tune to the desired station. 2) Pulse the *_Tuner_Store_Preset input. 3) While the *_Tuner_Store_Preset_Is_Active, pulse one of the *_Tuner_Preset_* inputs. <p>The store preset mode will only be active for 5 seconds. If two zones enter store preset mode at the same time, both store preset modes will reset when one of those zones selects a preset to store the station to.</p> <p>NOTE: There is only one set of 40 network presets. All zones use the same network presets. Recalling preset 23 from zone 3 will recall the same station as recalling preset 23 from the main zone.</p> <p>To store a network radio preset:</p> <ol style="list-style-type: none"> 1) Go to stations url. 2) Pulse the *_Network_Store_Preset input. This will cause the current station to be stored in the next available network preset.
CRESTRON HARDWARE REQUIRED:	C2I-COM, ST-COM, C2-COM-*
SETUP OF CRESTRON HARDWARE:	RS232 Baud:9600 Parity: None Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	1021-0499-0110-4101
VENDOR SETUP:	None
CABLE DIAGRAM:	CNSP-121

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CONTROL:

Main_Power_<On/Off/Toggle>	D	Pulse to turn the main zone on or off.
Main_Input_*	D	Pulse to select the desired input for the main zone.
Main_Volume_<Up/Down>	D	Press and hold to adjust the main zone volume.
Main_Volume_Mute_<On/Off/Toggle>	D	Pulse to turn the main volume mute on and off.
Main_Tuner_Key_<0..9/Backspace/Clear>	D	Pulse to enter a station to tune to.
Main_Tuner_Key_Enter	D	Pulse to tune to the entered station.
Main_Tuner_Key_<Up/Down>	D	Pulse to start seeking the next station.
Main_Tuner_Preset_<1...40>	D	While the Main_Tuner_Store_Preset_Is_Active is high, pulsing one of these inputs will store the current band and station to the selected preset. While the Main_Tuner_Store_Preset_Is_Active is low, pulsing one of these inputs will recall the stored band and station.
Main_Tuner_Preset_<Up/Down>	D	Pulse to cycle through the tuner presets.
Main_Tuner_Store_Preset	D	Pulse to activate the tuner preset store mode. Tuner store preset mode will remain active for 5 seconds, until a *_Preset_* input is pulsed or until this input is pulsed again.
Zone_<2/3/4>_Power_<On/Off/Toggle>	D	Pulse to turn the desired zone on or off.
Zone_<2/3/4>_Input_*	D	Pulse to select the desired input for the desired zone.
Zone_<2/3/4>_Volume_<Up/Down>	D	Press and hold to adjust the volume for the desired zone.
Zone_<2/3/4>_Volume_Mute_<On/Off/Toggle>	D	Pulse to turn the volume mute on and off for the desired zone.

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Zone_<2/3/4>_Tuner_Key_<0..9/Backspace/Clear>	D	Pulse to enter a station to tune to.
Zone_<2/3/4>_Tuner_Key_Enter	D	Pulse to tune to the entered station.
Zone_<2/3/4>_Tuner_Key_<Up/Down>	D	Pulse to start seeking the next station.
Zone_<2/3/4>_Tuner_Preset_<1...40>	D	While the Zone_<2/3/4>_Tuner_Store_Preset_Is_Active is high, pulsing one of these inputs will store the current band and station to the selected preset. While the Zone_<2/3/4>_Tuner_Store_Preset_Is_Active is low, pulsing one of these inputs will recall the stored band and station.
Zone_<2/3/4>_Tuner_Preset_<Up/Down>	D	Pulse to cycle through the tuner presets.
Zone_<2/3/4>_Tuner_Store_Preset	D	Pulse to activate the tuner preset store mode. Tuner store preset mode will remain active for 5 seconds, until a *_Preset_* input is pulsed or until this input is pulsed again.
Sleep_<90/10>_Minutes	D	Pulse to set the time for the sleep timer and start the sleep timer clock.
Sleep_Off	D	Pulse to turn the sleep timer off.
Sleep_Cycle	D	Pulse to cycle through the sleep timer settings.
Front_Panel_Display_*	D	Pulse to set the receiver's front panel display brightness.
Menu	D	Pulse to turn the setup menu on and off.
Up/Down/Left/Right	D	Pulse to move through the menus.
Enter	D	Pulse to select the highlighted item in the menu.
Exit	D	Pulse to step back to the previous menu level.
Audio_Out_*	D	Pulse to set the audio output.
Monitor_Out_Resolution_*	D	Pulse to select the desired monitor output resolution.
Late_Night_<High/Low/Off/Cycle>	D	Pulse to select the desired late night mode.
Display_Cycle	D	Pulse to cycle through the display settings.
Surround_Mode_*	D	Pulse to select the desired surround mode. NOTE: Not all surround modes are available for all inputs.
Main_Net-Tune/Network/USB_*	D	Pulse to control the network inputs.
Main_Network_Preset_<1...40>	D	Pulse to select the desired network preset.

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Main_Network_Store_Preset	D	Pulse to store the current station in the next available preset.
Zone_<2/3/4>_Net-Tune/Network/USB_*	D	Pulse to control the network inputs.
Zone_<2/3/4>_Network_Preset_<1...40>	D	Pulse to select the desired network preset.
Zone_<2/3/4>_Network_Store_Preset	D	Pulse to store the current station in the next available preset.
Initialize	D	Pulse to get the initial status.
From_Device	S	Serial data signal to be routed from a 2-way serial com port.

FEEDBACK:

Main_Power_Is_<On/Off>	D	High to indicate current power status for the main zone.
Main_Input_Is_*	D	High to indicate the currently selected input for the main zone.
Main_Volume_Gauge	A	Analog output indicating the volume level for the main zone.
Main_Volume_Mute_Is_<On/Off>	D	High to indicate the current volume mute status for the main zone.
Main_Tuner_Frequency_Text	S	Serial signal indicating the currently tuned station frequency.
Main_Tuner_Preset_Is_<1...40>	D	High to indicate the currently selected tuner input.
Main_Tuner_Store_Preset_Is_Active	D	High to indicate that the store preset mode is active for the main zone. This will remain high for 5.0 seconds after the Main_Tuner_Store_Preset is pulsed.
Zone_<2/3/4>_Power_Is_<On/Off>	D	High to indicate current power status for each zone.
Zone_<2/3/4>_Input_Is_*	D	High to indicate the currently selected input for each zone.
Zone_<2/3/4>_Volume_Gauge	A	Analog output indicating the volume level for each zone.
Zone_<2/3/4>_Volume_Mute_Is_<On/Off>	D	High to indicate the current volume mute status for each zone.
Zone_<2/3/4>_Tuner_Frequency_Text	S	Serial signal indicating the currently tuned station frequency.
Zone_<2/3/4>_Tuner_Preset_Is_<1...40>	D	High to indicate the currently selected tuner input.
Zone_<2/3/4>_Tuner_Store_Preset_Is_Active	D	High to indicate that the store preset mode is active for each zone. This will remain high for 5.0 seconds after the Zone_<2/3/4>_Tuner_Store_Preset is pulsed.

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Sleep_Time_Digital_Gauge	A	Analog value indicating the current number of minutes remaining in the sleep timer. To be displayed using a digital gauge on a touch panel.
Front_Panel_Display_Is_*	D	High to indicate the current front panel display brightness setting.
Audio_Out_*	D	High to indicate the current audio out setting.
Monitor_Out_Resolution_*	D	High to indicate the current monitor out resolution setting.
Surround_Mode_Is_*	D	High to indicate the currently selected surround mode.
Main_Net-Tune/Network/USB_Is_*	D	High to indicate the current Net-Tune/Network/USB transport status.
Main_Net_Tune/Network/USB_Line_*_Text	S	Serial signals displaying the Net-Tune/Network/USB menus.
Main_Net_Tune/Network/USB_Cursor_Position_Is_Line_*	D	High to indicate which Net-Tune/Network/USB menu line is currently highlighted.
Main_Net_Tune/Network/USB_*_Text	S	Serial signals indicating the artist, album, title, time and track for the currently playing on the Net-Tune/Network/USB.
Main_Net_Tune/Network/USB_Repeat_Is_*	D	High to indicate the current repeat status for the Net-Tune/Network/USB.
Main_Net_Tune/Network/USB_Shuffle_Is_*	D	High to indicate the current shuffle status for the Net-Tune/Network/USB.
Main_Network_Preset_Is_*	D	High to indicate the currently selected network preset.
Zone_<2/3/4>_Net-Tune/Network/USB_Is_*	D	High to indicate the current Net-Tune/Network/USB transport status.
Zone_<2/3/4>_Net_Tune/Network/USB_Line_*_Text	S	Serial signals displaying the Net-Tune/Network/USB menus.
Zone_<2/3/4>_Net_Tune/Network/USB_Cursor_Position_Is_Line_*	D	High to indicate which Net-Tune/Network/USB menu line is currently highlighted.
Zone_<2/3/4>_Net_Tune/Network/USB_*_Text	S	Serial signals indicating the artist, album, title, time and track for the currently playing on the Net-Tune/Network/USB.
Zone_<2/3/4>_Net_Tune/Network/USB_Repeat_Is_*	D	High to indicate the current repeat status for the Net-Tune/Network/USB.
Zone_<2/3/4>_Net_Tune/Network/USB_Shuffle_Is_*	D	High to indicate the current shuffle status for the Net-Tune/Network/USB.
Zone_<2/3/4>_Network_Preset_Is_*	D	High to indicate the currently selected network preset.
Initialize_Busy	D	High to indicate that the module is getting the initial status from the receiver.
To_Device	S	Serial data signal to be routed to a 2 way com port.

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**TESTING:**

OPS USED FOR TESTING:	PRO2: v4.008.0008 CP3: 1.010.0060
SIMPL WINDOWS USED FOR TESTING:	4.02.56
DEVICE DB USED FOR TESTING:	63.05.006.00
CRES DB USED FOR TESTING:	50.00.004.00
SYMBOL LIBRARY USED FOR TESTING:	933
SAMPLE PROGRAM:	2-Series: Integra DTR-70.4 v1.2 Demo PRO2.smw 3-Series: Integra DTR-70.4 v1.2 Demo PRO3.smw
REVISION HISTORY:	v1.0 – Initial Release v1.1 – Resolved issue with Spotify metadata not being displayed. v1.2 – Modified delimiter to process feedback more efficiently.