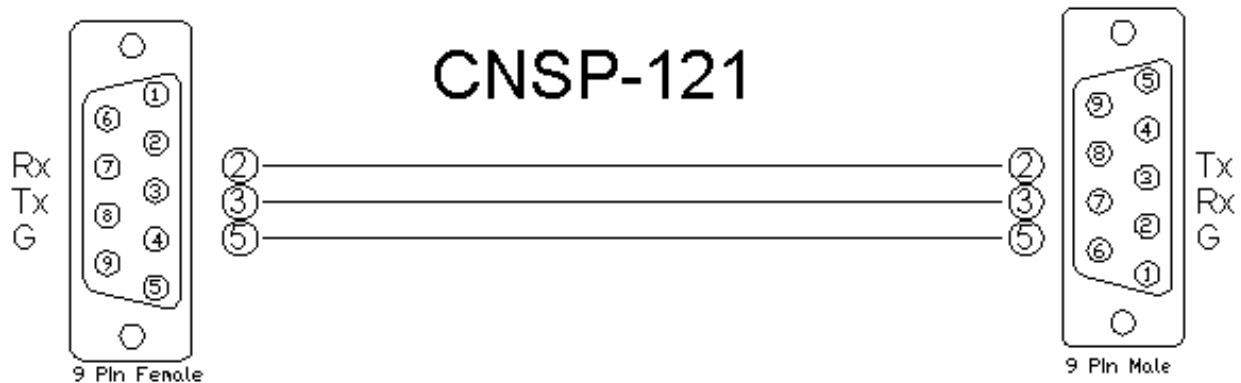


Partner: Integra  
 Model: TUN 3.7  
 Device Type: Tuner



**GENERAL INFORMATION**

<b>SIMPLWINDOWS NAME:</b>	Integra TUN 3.7
<b>CATEGORY:</b>	Tuner
<b>VERSION:</b>	1.0
<b>SUMMARY:</b>	Controls all standard functions on an Integra TUN 3.7 tuner. Provides true feedback.
<b>GENERAL NOTES:</b>	This module will control an Integra TUN 3.7 tuner. Note that all inputs to this module should be momentary, as if coming from a button on a touch panel. This module is for 2 series processors only.
<b>CRESTRON HARDWARE REQUIRED:</b>	ST-COM, C2COM
<b>SETUP OF CRESTRON HARDWARE:</b>	RS232 Baud: 9600 Parity: N Data Bits: 8 Stop Bits: 1
<b>VENDOR FIRMWARE:</b>	N/A
<b>VENDOR SETUP:</b>	N/A
<b>CABLE DIAGRAM:</b>	CNSP-121



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**CONTROL:**

<b>Power_On/Off/Toggle</b>	D	Pulse to turn the unit on or off.
<b>Input_*</b>	D	Pulse to pick a source.
<b>Tuner_Key_*</b>	D	Pulse to set frequency for tuner.
<b>Sirius_Password_Key_*</b>	D	Pulse to set Password for Sirius tuner.
<b>Display_Cycle</b>	D	Pulse to Change display on LCD front panel.
<b>Preset_Up/Down</b>	D	Pulse to increment/decrement tuner presets.
<b>Preset_*</b>	D	Pulse to pick a tuner preset.
<b>XM_Category_Up/Down</b>	D	Pulse to Change category for XM tuner.
<b>Sirius_Category_Up/Down</b>	D	Pulse to Change category for Sirius tuner.
<b>Initialize</b>	D	Pulse to initialize tuner and poll for its settings. This is typically done once upon entry into the screen for this tuner.
<b>From_Device\$</b>	S	Serial signal to be routed from a 2-way RS232 port.

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**FEEDBACK:**

Power_On/Off_Fb	D	True feedback indicating the power state.
Input_*_Fb	D	True feedback indicating tuner input.
Tuner_Frequency\$	S	True feedback indicating tuner frequency.
DAB_Multiplex_Name\$	S	True feedback indicating DAB (Europe) multiplex name.
DAB_Station_Name\$	S	True feedback indicating DAB (Europe) station name.
DAB_Bit_Rate_and_Stereo\$	S	True feedback indicating DAB (Europe) bit rate and stereo/mono status.
DAB_Bit_Error_Rate\$	S	True feedback indicating DAB (Europe) bit error.
DAB_Program_Type\$	S	True feedback indicating DAB (Europe) program type.
HD_Artist\$	S	True feedback indicating artist.
HD_Channel_Name\$	S	True feedback indicating channel name.
HD_Title\$	S	True feedback indicating title.
HD_Radio_Detail\$	S	True feedback indicating HD radio detail.
HD_Program\$	S	True feedback indicating HD radio program.
HD_Blend_Mode\$	S	True feedback indicating HD radio blend mode.
HD_Tuner_Status\$	S	True feedback indicating HD radio tuner status.
Sirius_Password\$	S	True feedback indicating Sirius password in plain text.
Sirius_Password_Stars\$	S	True feedback indicating Sirius password in ciphered "stars" text.
Sirius_Parental_Lock_Password_Needed_Fb	D	True feedback indicating Sirius password needed.
Sirius_Parental_Lock_Password_Wrong_Fb	D	True feedback indicating Sirius password entered incorrectly.
Sirius_Channel_Name\$	S	True feedback indicating channel Name.
Sirius_Channel_Number\$	S	True feedback indicating channel Number.

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Sirius_Title\$	S	True feedback indicating title.
Sirius_Artist\$	S	True feedback indicating artist.
Sirius_Category\$	S	True feedback indicating category.
XM_Channel_Name\$	S	True feedback indicating channel name.
XM_Channel_Number\$	S	True feedback indicating channel number.
XM_Title\$	S	True feedback indicating title.
XM_Artist\$	S	True feedback indicating artist.
XM_Category\$	S	True feedback indicating category.
Preset_*_Fb	D	True feedback indicating current preset.
Initialize_Busy_Fb	D	True feedback indicating unit is initializing.
To_Device\$	S	Serial signal to be routed to a 2 way RS232 port.

## TESTING:

OPS USED FOR TESTING:	PRO2 Cntrl Eng {v3.137 (Release)}
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 TUN 3.7 Demo
REVISION HISTORY:	V. 1.0