

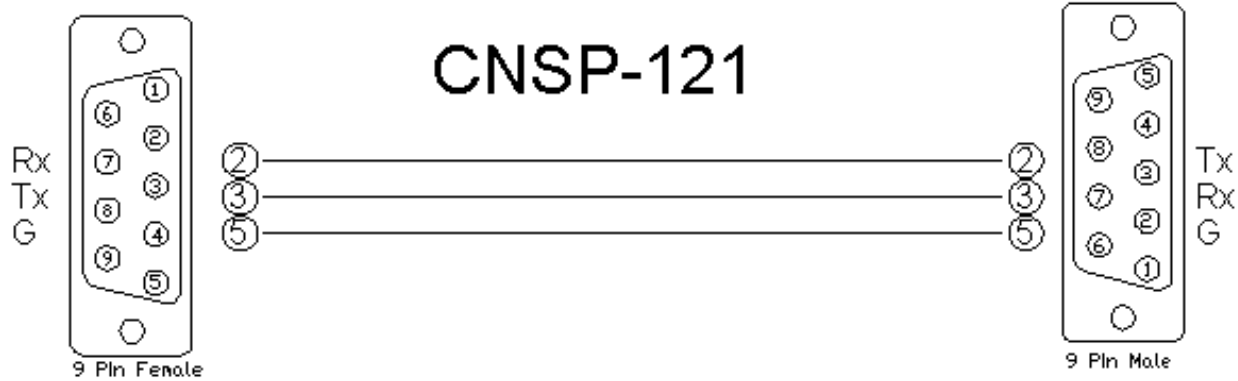
Partner: NAD Electronics
Model: T175
Device Type: A/V Receiver



GENERAL INFORMATION

SIMPLWINDOWS NAME:	NAD T175
CATEGORY:	Audio Processor
VERSION:	1
SUMMARY:	This module controls most of the functions of the NAD T175 A/V Surround Sound Receiver.
GENERAL NOTES:	<p>This module controls most of the functions of the NAD T175. To enable proper feedback, it is recommended that the Poll_Settings input be pulsed once at program initialization. Initialization takes approximately 10 seconds. During initialization, the unit ignores other commands. For continuous feedback updated sequentially every second put a "1" on the Poll_Enable signal. Tuner settings only work if at least 1 zone has tuner selected as its source. Tuner is shared between zones. For FM direct tuning, the "." is required. Tuner is shared between zones.</p> <p>Source names can be changed through the parameter fields for sources 1 to 9. Source 10 is reserved for tuner. Manufacturer states that the maximum source name length is 12 characters.</p>
CRESTRON HARDWARE REQUIRED:	CNX-COM, C2-COM, ST-COM
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 115,200 Parity: N Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	V1.09
VENDOR SETUP:	None
CABLE DIAGRAM:	CNSP-121

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CONTROL:

Main_Power_On/Off/Toggle	D	Pulse to turn Main unit on and off.
Main_Volume_Up/Down	D	Press and hold to change main volume.
Main_Volume_Mute_Toggle/On/Off	D	Pulse to change main volume mute.
Main_Input_Source_*	D	Pulse to change source. Note: Sources 1-9 may have user-defined names (available through the parameter fields in this module).
Main_Input_Tuner	D	Pulse to change main source to tuner.
Tuner_Preset_*	D	Pulse to change a tuner preset. Presets are setup and saved through the memory key on the NAD T175 unit.
Tuner_Band_XM/DAB/FM/AM	D	Pulse to pick a tuner band. DAB is for Europe only.
Tuner_Tune_+/-	D	Pulse to change tuner frequency or channel up and down.
Tuner_Search_+/-	D	Pulse to change tuner search up and down.
Tuner_DigitalMode_DAB/XM	D	Pulse to change tuner digital mode to either DAB or XM.
Key_*	D	Pulse to enter a frequency or channel directly.
Menu_Up/Down/Left/Right	D	Pulse to navigate OSD menu system.
Menu_Enter	D	Pulse to choose menu enter on OSD menu system.
Menu_Display	D	Pulse to change display on OSD menu system.

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Sleep	D	Pulse to change sleep duration in minutes (0 means no sleep).
Zone_2_Power_On/Off/Toggle	D	Pulse to turn Zone 2 on and off.
Zone_2_Volume_Up/Down	D	Pulse to change Zone 2 volume.
Zone_2_Volume_Mute_Toggle/On/Off	D	Press and hold to change Zone 2 volume mute.
Zone_2_Input_Source_*	D	Pulse to change source in Zone 2. Note: Sources 1-9 may have user-defined names (available through the parameter fields in this module).
Zone_2_Input_Tuner	D	Pulse to change Zone 2 source to tuner.
Zone_3_Power_On/Off/Toggle	D	Pulse to turn Zone 3 on and off.
Zone_3_Volume_Up/Down	D	Press and hold to change Zone 3 volume.
Zone_3_Volume_Mute_Toggle/On/Off	D	Pulse to change Zone 3 volume mute.
Zone_3_Input_Source_*	D	Pulse to change source in Zone 3. Note: Sources 1-9 may have user-defined names (available through the parameter fields in this module).
Zone_3_Input_Tuner	D	Pulse to change Zone 3 source to tuner.
Zone_4_Power_On/Off/Toggle	D	Pulse to turn Zone 4 on and off.
Zone_4_Volume_Up/Down	D	Press and hold to change Zone 4 volume.
Zone_4_Volume_Mute_Toggle/On/Off	D	Pulse to change Zone 4 volume mute.
Zone_4_Input_Source_*	D	Pulse to change source in Zone 4. Note: Sources 1-9 may have user-defined names (available through the parameter fields in this module).
Zone_4_Input_Tuner	D	Pulse to change Zone 4 source to tuner.
Treble_Up/Down	D	Press and hold to adjust treble.
Bass_Up/Down	D	Press and hold to adjust bass.
Surround_Trim_Up/Down	D	Press and hold to adjust surround trim.
Center_Trim_Up	D	Press and hold to adjust center trim.
Sub_Trim_Up/Down	D	Press and hold to adjust subwoofer trim.

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Surround_Mode_*	D	Press and hold to change surround mode.
Main_Trigger_1_Out_Main/Zone_*	D	Pulse to set main trigger 1 to desired zone.
Main_Trigger_2_Out_Main/Zone_*	D	Pulse to set main trigger 2 to desired zone.
Main_Trigger_3_Out_Main/Zone_*	D	Pulse to set main trigger 3 to desired zone.
Main_Trigger_4_Out_Main/Zone_*	D	Pulse to set main trigger 4 to desired zone.
Initialize	D	Pulse to poll (synch unit with a status query).
Poll_Enable	D	Set to 1 to enable real-time feedback
From_Device\$	S	Serial signal to be routed from a 2-way serial com port

PARAMETERS:

Source * Name	P	String parameter indicating source name. Source names can be changed through the parameter fields for sources 1 to 9. Source 10 is reserved for tuner. Manufacturer states that the maximum source name length is 12 characters.
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FEEDBACK:

Main_Power_On/Off_Fb	D	High to indicate the current power state of main unit.
Main_Volume_Bar	A	Analog signal to be routed to the panel indicating main volume level.
Main_Volume_Mute_On/Off_Fb	D	High to indicate the current volume mute state of main unit.
Main_Input_Source_*_Fb	D	High to indicate the current input source of main unit.
Main_Input_Tuner_Fb	D	High to indicate the current input source of main unit is tuner.
Tuner_Preset_*_Fb	D	High to indicate the tuner preset of main unit.
Tuner_Band_XM/AM/FM_Fb	D	High to indicate the tuner band (shared between all zones).
Tuner\$	S	Serial string feedback indicating current channel or frequency.
Tuner_XM_ChannelName\$	S	Serial string feedback indicating current XM channel name.
Tuner_XM_Name\$	S	Serial string feedback indicating current XM name.

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Tuner_XM_Title\$	S	Serial string feedback indicating current XM title.
Tuner_DigitalMode_DAB/XM_Fb	D	High to indicate the tuner digital mode (shared between all zones).
Tuner_FM_RDS_Name\$	S	Serial string feedback indicating current FM RDS name.
Tuner_FM_RDS_Text\$	S	Serial string feedback indicating current FM RDS text.
Direct_Tune_Display\$	S	Serial string feedback indicating current direct tuning entry.
Tuner_DAB_DLS\$	S	Serial string feedback indicating current DAB DLS name.
Tuner_DAB_Service\$	S	Serial string feedback indicating current DAB Service.
Sleep\$	S	Serial string feedback indicating current Sleep time in minutes. 0 = do not sleep.
Zone_2_Power_On/Off_Fb	D	High to indicate the current power state of Zone 2.
Zone_2_Volume_Bar	A	Analog signal to be routed to the panel indicating Zone 2 volume level.
Zone_2_Volume_Mute_On/Off_Fb	D	High to indicate the current volume mute state of Zone 2.
Zone_2_Input_Source_*_Fb	D	High to indicate the current input source of Zone 3.
Zone_2_Input_Tuner_Fb	D	High to indicate the current input source of Zone 2 is tuner.
Zone_3_Power_On/Off_Fb	D	High to indicate the current power state of Zone 3.
Zone_3_Volume_Bar	A	Analog signal to be routed to the panel indicating Zone 3 volume level.
Zone_3_Volume_Mute_On/Off_Fb	D	High to indicate the current volume mute state of Zone 3.
Zone_3_Input_Source_*_Fb	D	High to indicate the current input source of Zone 3.
Zone_3_Input_Tuner_Fb	D	High to indicate the current input source of Zone 3 is tuner.
Zone_4_Power_On/Off_Fb	D	High to indicate the current power state of Zone 4.
Zone_4_Volume_Bar	A	Analog signal to be routed to the panel indicating Zone 4 volume level.
Zone_4_Volume_Mute_On/Off_Fb	D	High to indicate the current volume mute state of Zone 4.
Zone_4_Input_Source_*_Fb	D	High to indicate the current input source of Zone 4.

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Zone_4_Input_Tuner_Fb	D	High to indicate the current input source of Zone 4 is tuner.
Source_Name_*\$	S	Serial string feedback indicating current Source name for sources 1 to 9. Source 10 is reserved for tuner. The maximum source name length is 12 characters.
Treble_Bar	A	Analog signal to be routed to the panel indicating Treble level.
Bass_Bar	A	Analog signal to be routed to the panel indicating Bass level.
Surround_Trim_Bar	A	Analog signal to be routed to the panel indicating Surround Trim level.
Center_Trim_Bar	A	Analog signal to be routed to the panel indicating Center Trim level.
Sub_Trim_Bar	A	Analog signal to be routed to the panel indicating Subwoofer Trim level.
Surround_Mode_*_Fb	D	High to indicate the current surround listening mode.
Main_Trigger_1_Out_Main/Zone_*_Fb	D	High to indicate main trigger 1 set to desired zone.
Main_Trigger_2_Out_Main/Zone_*_Fb	D	High to indicate main trigger 2 set to desired zone.
Main_Trigger_3_Out_Main/Zone_*_Fb	D	High to indicate main trigger 3 set to desired zone.
Main_Trigger_4_Out_Main/Zone_*_Fb	D	High to indicate main trigger 4 set to desired zone.
Unit_Busy_Initializing_Fb	D	High to indicate the current initialization state of main unit.
To_Device\$	S	Serial signal to be routed to a 2-way serial com port

TESTING:

OPS USED FOR TESTING:	PRO2 3.155.1240
SIMPL WINDOWS USED FOR TESTING:	SIMPL 2.08.44
CRES DB USED FOR TESTING:	18.9.1
SYMBOL LIBRARY USED FOR TESTING:	508
SAMPLE PROGRAM:	NAD T175 Pro2_Demo.smw
REVISION HISTORY:	None