

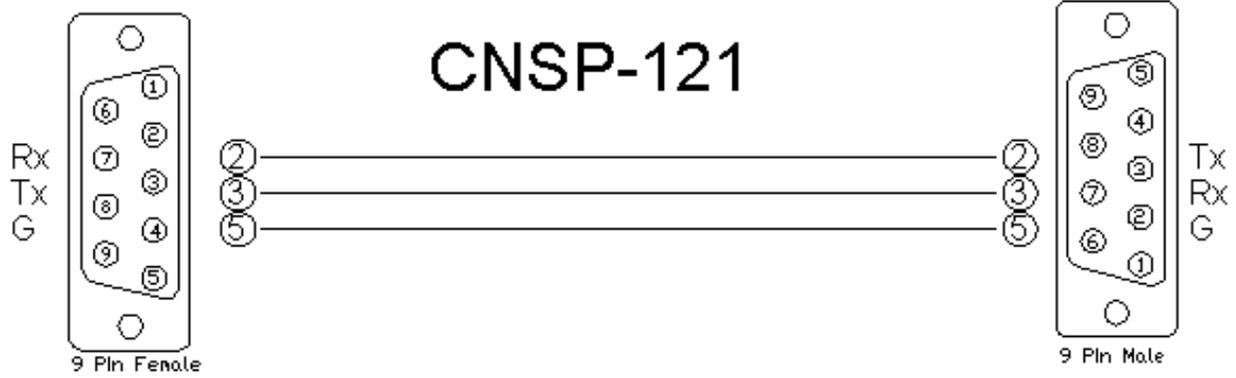
**Partner: Denon**  
**Model: AVR-3806 + AVR-4806**  
**Device Type: AV Surround Receiver**



## GENERAL INFORMATION

|                                    |   |
|------------------------------------|---|
| <b>SIMPLWINDOWS NAME:</b>          | Denon AVR-3806 + AVR -4806  |
| <b>CATEGORY:</b>                   | Audio Processor   |
| <b>VERSION:</b>                    | 1   |
| <b>SUMMARY:</b>                    | Controls all of the standard functions and provides true feedback.  |
| <b>GENERAL NOTES:</b>              | <p>This module will control all of the standard functions on a Denon AVR-3806 + AVR -4806 AV Surround Receiver. True feedback is provided by the unit. Functions provided include main zone control, zone 2 control, zone 3 control, surround mode selection, surround speaker level adjustments, and tuner band/preset selection.</p> <p><b>Note:</b> For surround mode selection, certain selections are only valid while certain sources are selected. So choosing a particular surround mode may actually cause a slightly different mode to be activated on the Denon system. However, since true feedback is provided, the actual surround mode currently active will be reflected on the output of this module. The AVR-3806 + AVR-4806 have an available surround back amplifier channel. If no surround back speakers are used in the main room, their amplifier channels can be assigned for multi-zone use or the front speaker's Bi-Amp connection.</p> |
| <b>CRESTRON HARDWARE REQUIRED:</b> | CNCOMH-2, CNXCOM, ST-COM  |
| <b>SETUP OF CRESTRON HARDWARE:</b> | RS232<br>Baud: 9600<br>Parity: n<br>Data Bits: 8<br>Stop Bits: 1  |
| <b>VENDOR FIRMWARE:</b>            | None  |
| <b>VENDOR SETUP:</b>               | None  |
| <b>CABLE DIAGRAM:</b>              | CNSP -121   |

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**CONTROL:**

|                                     |   |  |
|-------------------------------------|---|--|
| From_Device\$                       | S | Serial signal to be routed from a 2-way serial com port. |
| Power_On/Off/Toggle                 | D | Pulse to turn the receivers main power on and off.       |
| Main/Zone_Volume_Up/Down            | D | Press and hold to adjust the zone's volume level.        |
| Main/Zone_Volume_Mute_On/Off/Toggle | D | Pulse to turn the zone's volume mute on and off.         |
| Input_*                             | D | Pulse to select the input.                               |
| <Surround_Modes>                    | D | Pulse to select the surround mode.                       |
| <Channel>_Up/Down                   | D | Press and hold to adjust the channel's gain up and down. |
| Auto/PCM/DTS/ANALOG/External_In     | D | Pulse to select the digital audio input.                 |
| Cinema_EQ_On/Off                    | D | Pulse to turn the Cinema EQ on and off.                  |
| Mode_Set_To_*                       | D | Pulse to set the mode.                                   |
| Tuner_Band_AM/FM                    | D | Pulse to set the tuning band.                            |
| Tuning_Mode_Auto/Manual             | D | Pulse to set the tuning to auto tune or manual tune.     |
| Tuner_Next/Previous_Preset          | D | Pulse to step through the tuner presets.                 |
| Tuner_Preset_*                      | D | Pulse to select the desired preset.                      |
| Tuner_Frequency_Up/Down             | D | Press and hold to adjust the tuner frequency.            |

**FEEDBACK:**

|                         |   |   |
|-------------------------|---|---|
| To_Device\$             | S | Serial signal to be routed to a 2-way serial com port.  |
| Power_On/Off_Fb         | D | High to indicate the current power state of the unit.   |
| Main/Zone_Volume_Bar    | A | Analog value indicating the current main zone volume level. To be displayed using a bar graph on a touch panel. |
| Main/Zone_Volume_Text\$ | S | Serial signal indicating the current main zone volume level.  |

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|                                 |   |  |
|---------------------------------|---|--|
| Main/Zone_Volume_Mute_On/Off_Fb | D | High to indicate the current main volume mute state.       |
| Input_*_Fb                      | D | High to indicate the current main zone source.             |
| <Surround_Mode>_Fb              | D | High to indicate the currently active surround mode.       |
| <Channel>_Text\$                | S | Serial signal indicating the current level for the channel |
| Auto/PCM/DTS/ANALOG/_Fb         | D | High to indicate the currently selected digital input.     |
| Cinema_EQ_On/Off_Fb             | D | High to indicate the current state of the cinema eq.       |
| Tuner_Band_*_Fb                 | D | High to indicate the current tuner band.                   |
| Tuning_Mode_*_Fb                | D | High to indicate the current tuning mode.                  |
| Tuner_Preset_*_Fb               | D | High to indicate the currently selected tuner preset.      |
| Current_Tuner_Frequency_Text\$  | S | Serial signal indicating the current tuner frequency.      |

## TESTING:

|                                  |   |
|----------------------------------|---|
| OPS USED FOR TESTING:            | PRO2 Cntrl Eng [v3.137 (Release)]       |
| SIMPL WINDOWS USED FOR TESTING:  | SIMPL 2.07.24                           |
| CRES DB USED FOR TESTING:        | 18.0.8                                  |
| SYMBOL LIBRARY USED FOR TESTING: | 381                                     |
| SAMPLE PROGRAM:                  | Denon AVR-3806 + AVR-4806 Demo Pro2.smw |
| REVISION HISTORY:                | V. 1.0                                  |