

AMX SVSI N4321D Installation and Usage Guide



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Overview

As the industry pioneer in video over IP, AMX has been delivering AVoIP solutions for well over a decade and can be found in many world-class installations. They offer a wide range of solutions for delivering up to 4K60 4:4:4 video, audio, USB, and control over standard gigabit networks. AMX AVoIP solutions are designed to support the latest enterprise network security features and to be configured and managed simply. AMX SVSI AVoIP solutions deliver secure, quality video wherever you need it.



Product Features

- Support for the N2600S range of encoders and decoders
- Support for the N2600 Wall Plate range of encoders and decoders
- Support for the N2400 range of encoders and decoders
- Support for the N4000 Audio Transceivers

AMX SVSI N4321D Module

Digital Inputs

Connect

The Connect command is used to initialize and keep the module running. It is level triggered and needs to be held high for the module to function. Sending this signal high will begin and maintain a connection to the device. Sending this signal low will disable the module.

Tx_Enable

The Tx_Enable command allows you to enable the devices Transmit function. This signal is level based and triggered with the rising edge.

Tx_Disable

The Tx_Disable command allows you to disable the devices Transmit function. This signal is level based and triggered with the rising edge.

Rx_Enable

The Rx_Enable command allows you to enable the devices Receive function. This signal is level based and triggered with the rising edge.

Rx_Disable

The Rx_Disable command allows you to disable the devices Receive function. This signal is level based and triggered with the rising edge.

Rx_Mute_On

The Rx_Mute_On command allows you to mute the received audio. This signal is level based and triggered with the rising edge.

RX_Mute_Off

The RX_Mute_Off command allows you to unmute the received audio. This signal is level based and triggered with the rising edge.

Rx_Unicast_On

The Rx_Unicast_On command allows you to enable receiving data via unicast. This signal is level based and triggered with the rising edge.

Rx_Unicast_Off

The Rx_Unicast_Off command allows you to disable receiving data via unicast. This signal is level based and triggered with the rising edge.

SVSI_Mute_On

The SVSI_Mute_On command allows you to set SVSI to mute. This signal is level based and triggered with the rising edge.

SVSI_Mute_Off

The SVSI_Mute_Off command allows you to set SVSI to unmute. This signal is level based and triggered with the rising edge.

Dante_Mute_On

The Dante_Mute_On command allows you to set Dante to mute. This signal is level based and triggered with the rising edge.

Dante_Mute_Off

The Dante_Mute_Off command allows you to set Dante to unmute. This signal is level based and triggered with the rising edge.

Analog_Input_Route_SVSI

The Analog_Input_Route_SVSI command sets the Analog Input to SVSI. The signal is level based and triggered with the rising edge.

Analog_Input_Route_DanteOut

The Analog_Input_Route_DanteOut command sets the Analog Input to Dante. The signal is level based and triggered with the rising edge.

Analog_Input_Route_None

The Analog_Input_Route_None command sets the Analog Input to None. The signal is level based and triggered with the rising edge.

Analog_Input_Route_All

The Analog_Input_Route_All command sets the Analog Input to All. The signal is level based and triggered with the rising edge.

SVSI_Rx_Route_Analog

The SVSI_Rx_Route_Analog command sets the SVSI route to Analog. The signal is level based and triggered with the rising edge.

SVSI_Rx_Route_DanteOut

The SVSI_Rx_Route_DanteOut command sets the SVSI route to Dante. The signal is level based and triggered with the rising edge.

SVSI_Rx_Route_None

The SVSI_Rx_Route_None command sets the SVSI route to None. The signal is level based and triggered with the rising edge.

SVSI_Rx_Route_All

The SVSI_Rx_Route_All command sets the SVSI route to All. The signal is level based and triggered with the rising edge.

Dante_Rx_Route_Analog

The Dante_Rx_Route_Analog command sets the Dante route to Analog. The signal is level based and triggered with the rising edge.

Dante_Rx_Route_SVSI

The Dante_Rx_Route_SVSI command sets the Dante route to SVSI. The signal is level based and triggered with the rising edge.

Dante_Rx_Route_None

The Dante_Rx_Route_None command sets the Dante route to None. The signal is level based and triggered with the rising edge.

Dante_Rx_Route_All

The Dante_Rx_Route_All command sets the Dante route to All. The signal is level based and triggered with the rising edge.

Relay_1_On

The Relay_1_On command allows you to turn relay #1 on. This signal is level based and triggered with the rising edge.

Relay_1_Off

The Relay_1_Off command allows you to turn relay #1 off. This signal is level based and triggered with the rising edge.

Relay_2_On

The Relay_2_On command allows you to turn relay #2 on. This signal is level based and triggered with the rising edge.

Relay_2_Off

The Relay_2_Off command allows you to turn relay #2 off. This signal is level based and triggered with the rising edge.

Port_On

The Port_On command allows you to turn port on. This signal is level based and triggered with the rising edge.

Port_Off

The Port_Off command allows you to turn port on. This signal is level based and triggered with the rising edge.

Settings_Lock_On

The Settings_Lock_On allows you to enable the settings lock. This signal is level based and triggered with the rising edge.

Settings_Lock_Off

The Settings_Lock_Off command allows you to disable the settings lock. This signal is level based and triggered with the rising edge.

Low_Power_Mode_On

The Low_Power_Mode_On command allows you to turn low power mode on. This signal is level based and triggered with the rising edge.

Low_Power_Mode_Off

The Low_Power_Mode_Off command allows you to turn low power mode off. This signal is level based and triggered with the rising edge.

Reboot

The Reboot command allows you to reboot the device. This signal is level based and triggered with the rising edge.

Analog Inputs

Set_Stream

The Set_Stream command allows you to set the current stream you wish to connect to. The stream number can be found by using the steam feedback provided by the encoder modules.

Volume_L

The Volume_L allows you to set a value for the left channel volume as a percentage.

Volume_R

The Volume_R allows you to set a value for the right channel volume as a percentage.

Audio_Gain_L

The Audio_Gain_L signal allows you to set a value for the left channel gain.

Audio_Gain_R

The Audio_Gain_R signal allows you to set a value for the left channel gain.

Line_Out_L

The Line_Out_L signal allows you to set a value for the left channel Line Out level.

Line_Out_R

The Line_Out_R signal allows you to set a value for the right channel Line Out level.

String Inputs

Custom Command

The Custom Command input can be used to send a command that isn't built in to the driver. Care needs to be taken to make sure the command you are sending is valid as this will simply pass through whatever you present directly to the device. The command can be entered directly as it is, there is no need to add carriage returns or any other characters.

Dynamic IP Address

The Dynamic IP Address input can be used to set the IP address at runtime. By default the parameter IP Address will be used, but if you update this signal it will be used for the next connection. Please note, there will be no immediate change, the new address will only be used on the rising edge of Connect.

Digital Outputs

Connected

The Connected signal will be high when the module is enabled and low when its not.

Tx_Enable_FB

The Tx_Enable_FB signal will be high when the Transmit is enabled and low when its not.

Tx_Disable_FB

The Tx_Disable_FB signal will be high when the Transmit is disabled and low when its not.

Rx_Enable_FB

The Rx_Enable_FB signal will be high when the Receive is enabled and low when its not.

Rx_Disable_FB

The Rx_Disable_FB signal will be high when the Receive is disabled and low when its not.

Rx_Unicast_On_FB

The Rx_Unicast_On_FB signal will be high when unicast receive is enabled and low when its not.

Rx_Unicast_Off_FB

The Rx_Unicast_Off_FB signal will be high when unicast receive is disabled and low when its not.

SVSI_Mute_On_FB

The SVSI_Mute_On_FB signal will be high if the SVSI mute is active and low when it is not.

SVSI_Mute_Off_FB

The SVSI_Mute_Off_FB signal will be high if the SVSI unmute is active and low when it is not.

Dante_Mute_On_FB

The Dante_Mute_On_FB signal will be high if the Dante mute is active and low when it is not.

Dante_Mute_Off_FB

The Dante_Mute_Off_FB signal will be high if the Dante unmute is active and low when it is not.

Analog_Input_Route_SVSI_FB

The Analog_Input_Route_SVSI_FB signal will be high when the analog input route is set to SVSI and low when its not.

Analog_Input_Route_DanteOut_FB

The Analog_Input_Route_DanteOut_FB signal will be high when the analog input route is set to Dante and low when its not.

Analog_Input_Route_None_FB

The Analog_Input_Route_None_FB signal will be high when the analog input route is set to None and low when its not.

Analog_Input_Route_All_FB

The Analog_Input_Route_All_FB signal will be high when the analog input route is set to All and low when its not.

SVSI_Rx_Route_Analog_FB

The SVSI_Rx_Route_Analog_FB signal will be high when the SVSI Rx route is set to Analog and low when its not.

SVSI_Rx_Route_DanteOut_FB

The SVSI_Rx_Route_DanteOut_FB signal will be high when the SVSI Rx route is set to Dante and low when its not.

SVSI_Rx_Route_None_FB

The SVSI_Rx_Route_None_FB signal will be high when the SVSI Rx route is set to None and low when its not.

SVSI_Rx_Route_All_FB

The SVSI_Rx_Route_All_FB signal will be high when the SVSI Rx route is set to All and low when its not.

Dante_Rx_Route_Analog_FB

The Dante_Rx_Route_Analog_FB signal will be high when the Dante Rx route is set to Analog and low when its not.

Dante_Rx_Route_SVSI_FB

The Dante_Rx_Route_SVSI_FB signal will be high when the Dante Rx route is set to SVSI and low when its not.

Dante_Rx_Route_None_FB

The Dante_Rx_Route_None_FB signal will be high when the Dante Rx route is set to None and low when its not.

Dante_Rx_Route_All_FB

The Dante_Rx_Route_All_FB signal will be high when the Dante Rx route is set to All and low when its not.

Relay_1_On_FB

The Relay_1_On_FB signal will be high if relay #1 is on and low if not.

Relay_1_Off_FB

The Relay_1_Off_FB signal will be high if relay #1 is off and low if not.

Relay_2_On_FB

The Relay_2_On_FB signal will be high if relay #2 is on and low if not.

Relay_2_Off_FB

The Relay_2_Off_FB signal will be high if relay #2 is off and low if not.

GPI_Level_High_FB

The GPI_Level_High_FB signal will be high if the GPI level is currently set to HIGH and low if not.

GPI_Level_Low_FB

The GPI_Level_Low_FB signal will be high if the GPI level is currently set to LOW and low if not.

Port_FB

The Port_FB will be high if the Port is enabled and low if not.

Settings_Lock_FB

The Settings_Lock_FB will be high is the settings lock is enabled and low if not.

Low_Power_Mode_FB

The Low_Power_Mode_FB will be high if the device is currently in lower power mode and low if not.

Analog Outputs

Output_Stream_FB

The Output_Stream_FB contains the value of the currently selected stream.

Volume_L_FB

The Volume_L_FB signal contains the current volume for the left channel as a value between 0 and 100.

Volume_R_FB

The Volume_R_FB contains the current volume for the right channel as a value between 0 and 100

Audio_Gain_L_FB

The Audio_Gain_L_FB contains the current audio gain for the left channel.

Audio_Gain_R_FB

The Audio_Gain_R_FB contains the current audio gain for the right channel.

Line_Out_L_FB

The Line_Out_L_FB contains the current line level out for the left channel.

Line_Out_R_FB

The Line_Out_R_FB contains the current line level out for the right channel.

String Outputs

Model

The Model signal contains the model of the connected device.

Device_Name

The Device_Name signal contains the name of the connected device.

MAC_Addr

The MAC_Addr signal contains the mac address of the connected device.

Web_Version

The Web_Version signal contains the version of the web interface software for the connected device.

Firmware

The Firmware signal contains the version of firmware for the connected device.