

AMX SVSI N2400 Encoder Installation and Usage Guide



Version: 1.0.1
Date: Saturday, May 03, 2025
Authors: Richard Mullins



Contents

Overview.....	5
Product Features.....	6
AMX SVSI N2400 Encoder Module.....	7
Digital Inputs.....	7
Connect.....	7
Play_Live.....	7
Play_Local.....	7
Play_Off.....	7
Mute_On.....	7
Mute_Off.....	7
Video_Mute_On.....	7
Video_Mute_Off.....	7
DVI_On.....	8
DVI_Off.....	8
HDMI_Audio_On.....	8
HDMI_Audio_Off.....	8
HDMI_Only.....	8
DVI_Only.....	8
HDMI_VGA.....	8
VGA_HDMI.....	8
Low_Power_Mode_On.....	8
Low_Power_Mode_Off.....	8
AES67_Enable.....	9
AES67_Disable.....	9
Port_1_On.....	9
Port_1_Off.....	9
Settings_Lock_On.....	9
Settings_Lock_Off.....	9
Reboot.....	9
Analog Inputs.....	9
Playlist.....	9

Audio_Gain_L.....	9
Audio_Gain_R.....	9
String Inputs.....	10
Send_Serial_Preset.....	10
Send_IR_Preset.....	10
Custom Command.....	10
Send IR Hex.....	10
Dynamic IP Address.....	10
Digital Outputs.....	10
Connected.....	10
Play_Live_FB.....	10
Play_Local_FB.....	11
Mute_FB.....	11
Video_Mute_FB.....	11
DVI_FB.....	11
HDMI_Audio_FB.....	11
Scaler_FB.....	11
HDMI_Only_FB.....	11
DVI_Only_FB.....	11
HDMI_DVI_FB.....	11
VGA_HDMI_FB.....	11
Low_Power_Mode_FB.....	11
AES67_Enable_FB.....	11
Port_1_FB.....	12
HDMI_Connection_FB.....	12
VGA_Connection_FB.....	12
HDMI_Active_FB.....	12
VGA_Active_FB.....	12
Settings_Lock_FB.....	12
Copy_Protection_Allowed_FB.....	12
Source_Content_Copy_Protection_FB.....	12
Analog Outputs.....	12
Output_Stream_FB.....	12
Playlist_FB.....	12

Audio_Sample_Rate.....	12
Audio_Gain_L_FB.....	12
Audio_Gain_R_FB.....	13
Output_Stream_Bandwidth_FB.....	13
Fan_Speed.....	13
Temperature.....	13
String Outputs.....	13
Model.....	13
Device_Name.....	13
MAC_Addr.....	13
Web_Version.....	13
Firmware.....	13
Input_Resolution.....	13

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 N2400 Encoder 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.

Play_Live

The Play_Live command allows you to switch the stream to using the live connection. This signal is level based and triggered with the rising edge.

Play_Local

The Play_Local command allows you to switch to a local connection and playlist. This signal is level based and triggered with the rising edge.

Play_Off

The Play_Off command allows you to disable both the live stream and the local stream. This signal is level based and triggered with the rising edge.

Mute_On

The Mute_On command allows you to turn the audio mute on. This signal is level based and triggered with the rising edge.

Mute_Off

The Mute_Off command allows you to turn the audio mute function off. This signal is level based and triggered with the rising edge.

Video_Mute_On

The Video_Mute_On command allows you to turn the video mute function on. This signal is level based and triggered with the rising edge.

Video_Mute_Off

The Video_Mute_Off command allows you to turn the video mute function off. This signal is level based and triggered with the rising edge.

DVI_On

The DVI_On command allows you to turn the DVI connection on. This signal is level based and triggered with the rising edge.

DVI_Off

The DVI_Off command allows you to turn the DVI connection off. This signal is level based and triggered with the rising edge.

HDMI_Audio_On

The HDMI_Audio_On command allows you to turn the HDMI Audio on. This signal is level based and triggered with the rising edge.

HDMI_Audio_Off

The HDMI_Audio_Off command allows you to turn the HDMI Audio off. This signal is level based and triggered with the rising edge.

HDMI_Only

The HDMI_Only command allows you to

DVI_Only

The DVI_Only command allows you to

HDMI_VGA

The HDMI_VGA command allows you to

VGA_HDMI

The VGA_HDMI command allows you to

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.

AES67_Enable

The AES67_Enable command allows you to enable AES67. This signal is level based and triggered with the rising edge.

AES67_Disable

The AES67_Disable command allows you to disable AES67. This signal is level based and triggered with the rising edge.

Port_1_On

The Port_1_On command allows you to turn port 1 on. This signal is level based and triggered with the rising edge.

Port_1_Off

The Port_1_Off command allows you to turn port 1 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.

Reboot

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

Analog Inputs

Playlist

The Playlist signal is used to set a playlist. Valid range is 0 and 7.

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.

String Inputs

Send_Serial_Preset

The Send_Serial_Preset command allows you to send a pre-configured serial string. The value used should match the preset you have configured.

Send_IR_Preset

The Send_IR_Preset command allows you to send a pre-configured IR preset. The value used should match the preset you have configured.

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.

Send IR Hex

It is possible to send a pronto formatted hex code to the device, but due to the string length limitation in SIMPL it needs to be formatted correctly. The codes needs to have any spaces removed and must finish with a \n character.

If the total length is under 255 characters you can send it as a single item in an SIO, but if it is greater than 255 you will need to send it as multiple strings, making sure that the final string has a \n character at the end.

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 or Connect.

Digital Outputs

Connected

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

Play_Live_FB

The Play_Live_FB signal will be high when the devices playback mode is set to live and low when its not.

Play_Local_FB

The Play_Local_FB signal will be high when the devices playback mode is set to local and low when its not.

Mute_FB

The Mute_FB signal will be high when the device is muted and low when its unmuted.

Video_Mute_FB

The Video_Mute_FB signal will be high when the devices video is muted and low when its unmuted.

DVI_FB

The DVI_FB signal will be high when the DVI connection is enabled and low when its not.

HDMI_Audio_FB

The HDMI_Audio_FB signal will be high when the HDMI audio is enabled and low when its not.

Scaler_FB

The Scaler_FB signal will be high when the scaler is enabled and low when its not.

HDMI_Only_FB

The HDMI_Only_FB command allows you to

DVI_Only_FB

The DVI_Only_FB command allows you to

HDMI_DVI_FB

The HDMI_DVI_FB command allows you to

VGA_HDMI_FB

The VGA_HDMI_FB command allows you to

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.

AES67_Enable_FB

The AES67_Enable_FB will be high is AES67 is enabled and low if not.

Port_1_FB

The Port_1_FB will be high is Port 1 is enabled and low if not.

HDMI_Connection_FB

The HDMI_Connection_FB command allows you to

VGA_Connection_FB

The VGA_Connection_FB command allows you to

HDMI_Active_FB

The HDMI_Active_FB command allows you to

VGA_Active_FB

The VGA_Active_FB command allows you to

Settings_Lock_FB

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

Copy_Protection_Allowed_FB

The Copy_Protection_Allowed_FB command allows you to

Source_Content_Copy_Protection_FB

The Source_Content_Copy_Protection_FB command allows you to

Analog Outputs

Output_Stream_FB

The Output_Stream_FB contains the value of the currently selected stream.

Playlist_FB

The Playlist_FB contains the current playlist number

Audio_Sample_Rate

The Audio_Sample_Rate contains the current audio sample rate.

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.

Output_Stream_Bandwidth_FB

The Output_Stream_Bandwidth_FB command allows you to

Fan_Speed

The Fan_Speed signal contains the current fan speed as a percentage

Temperature

The Temperature signal contains the current temperature of the unit expressed in degrees celcius

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.

Input_Resolution

The Input_Resolution signal contains the current input resolution of the connected device.