

NST Matrix Processor Control4 Drivers

Summary

This document describes the drivers that can be used for 3rd party control of NST devices by Crestron processors over ethernet networks.

For any queries on information not contained in this document, please contact support@nstaudio.com

Requirements

This document applies to the following NST devices and firmware versions :

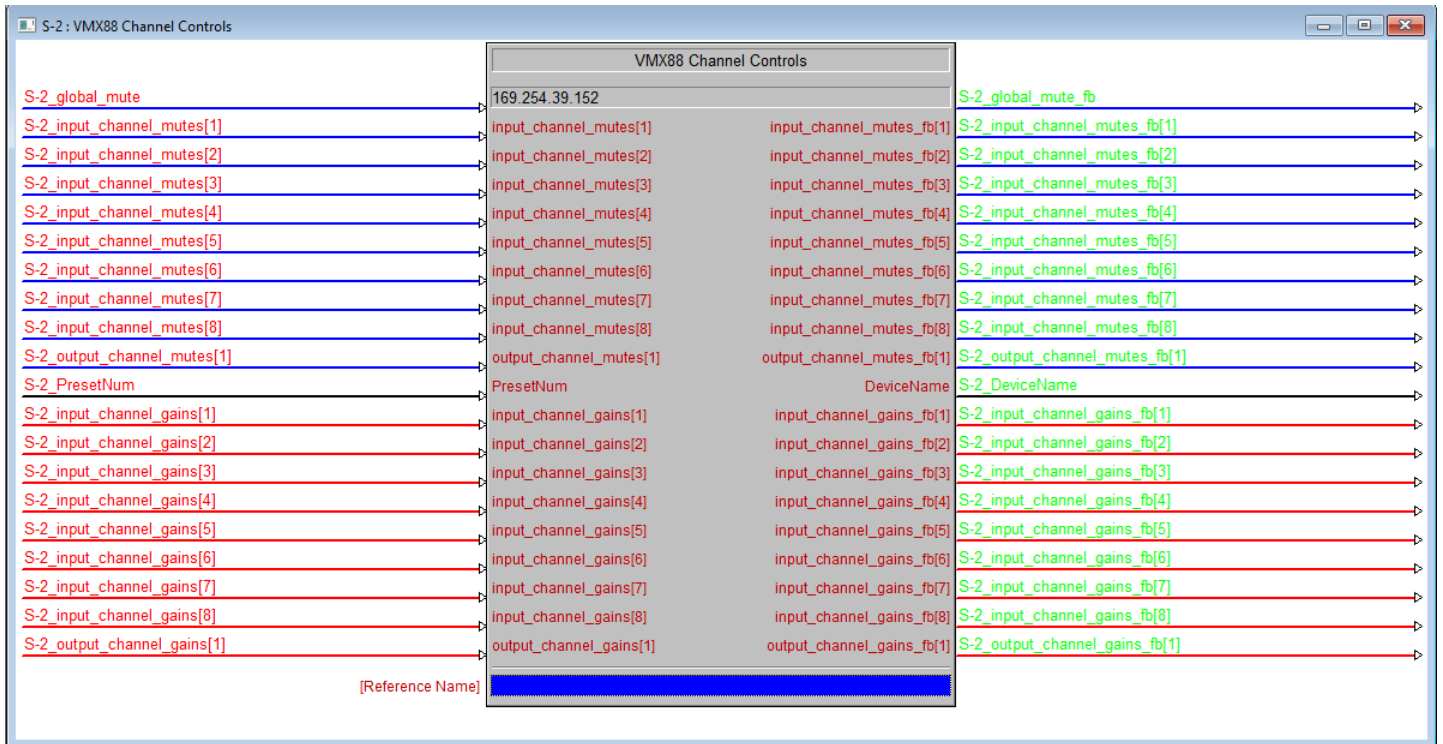
VMX88 firmware v0.2.0.95 and above (including all FFA G3 amplifiers)

VMO16 firmware v0.2.0.37 and above

VMX88 Driver

The driver for the VMX88 is made up of 3 sections. A channel module, a matrix module and a network matrix module.

Channel Module



The Channel module is used to control the gains and mutes of all of the input and output channels for the VMX88. It also provides control for global mute and any preset recall controls.

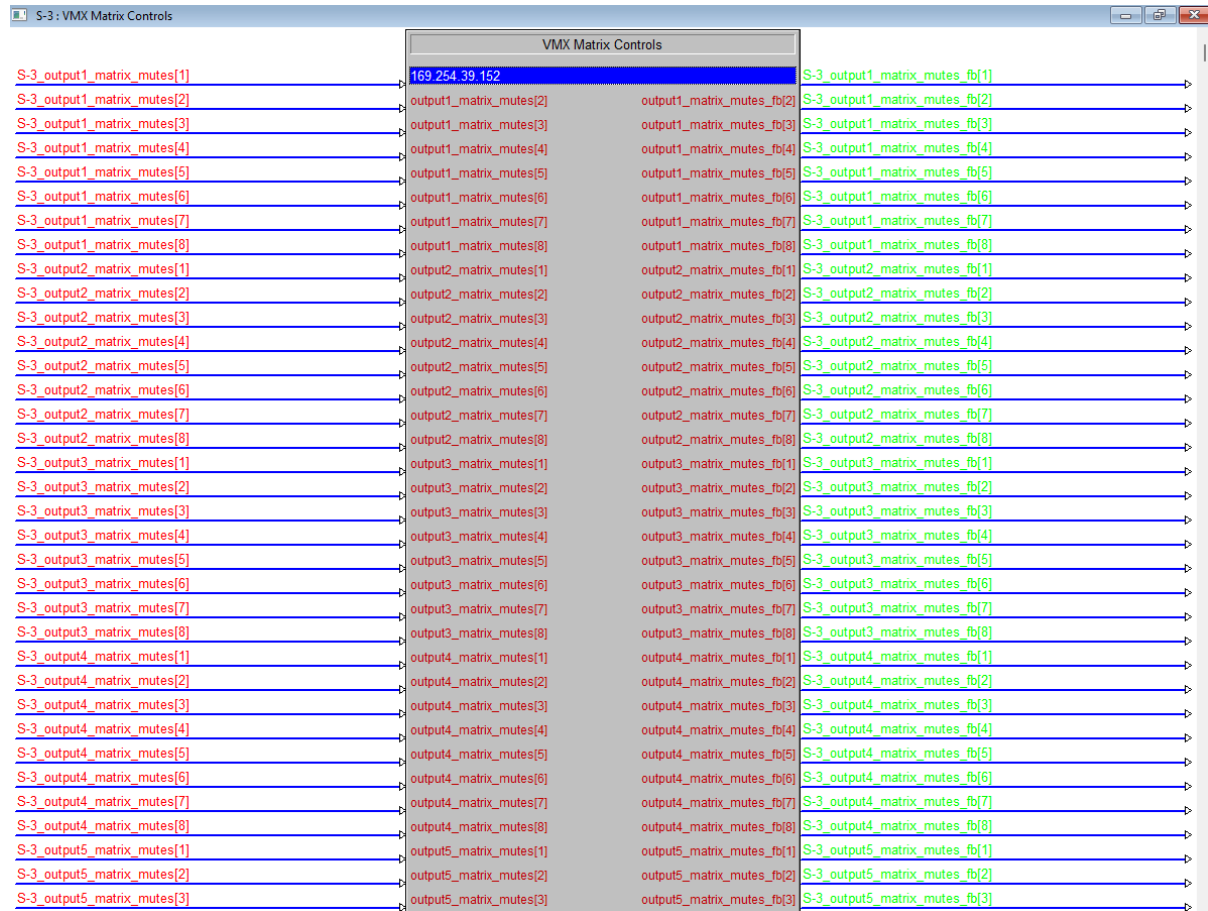
Gain controls take an analog input of dB as *hundredths of a db* e.g. 12.3dB = 1230

Mute controls and global mute are a digital input and can either be on or off: 1 or 0

Preset recall requires you to provide a string of the number preset you wish to recall and then will instantly recall when this is sent.

The parameter box at the top of the module takes an IP address and is required to specify the address of the VMX device you wish to control.

Matrix Module



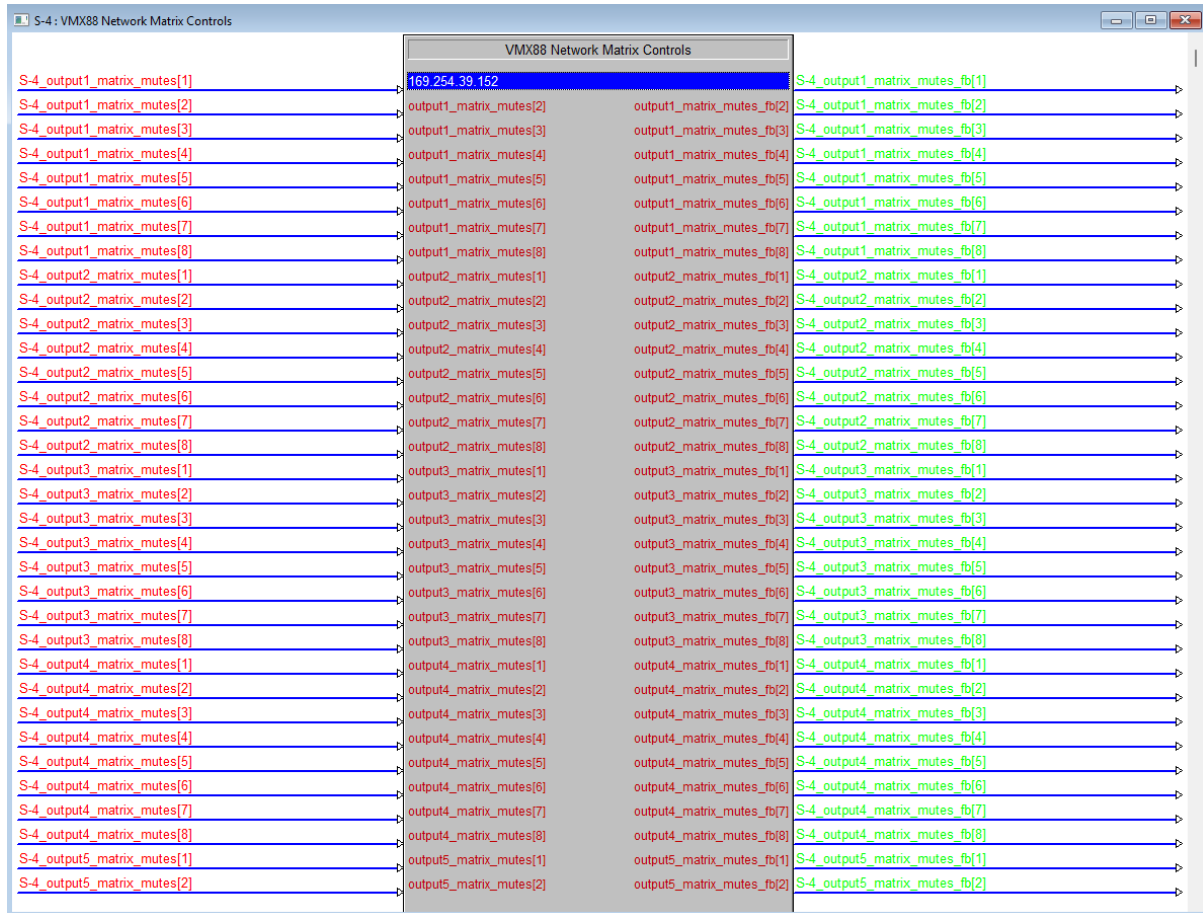
The matrix module is used to control the gains and mutes for the channel matrix for the VMX88.

Gain controls take an analog input of dB as *hundredths of a db* e.g. 12.3dB = 1230

Mute controls are a digital input and can either be on or off: 1 or 0

The parameter box at the top of the module takes an IP address and is required to specify the address of the VMX device you wish to control.

Network Matrix Module



The network matrix module is used to control the gains and mutes for the network matrix for the VMX88.

Gain controls take an analog input of dB as *hundredths of a db* e.g. 12.3dB = 1230

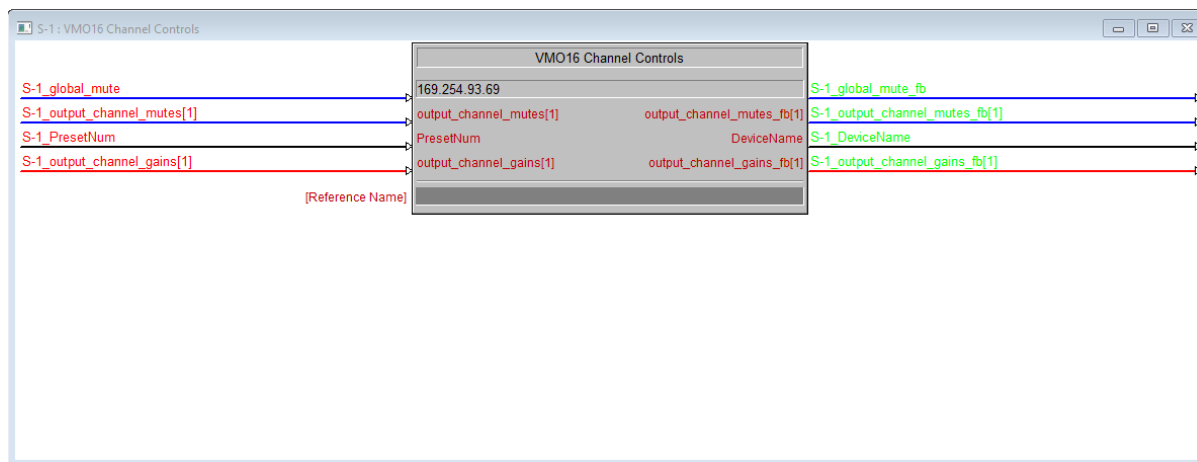
Mute controls are a digital input and can either be on or off: 1 or 0

The parameter box at the top of the module takes an IP address and is required to specify the address of the VMX device you wish to control.

VMO16 Driver

The driver for the VMX88 is made up of 2 sections. A channel module and a network matrix module.

Channel Module



The Channel module is used to control the gains and mutes of all of the output channels for the VMO16. It also provides control for global mute and any preset recall controls.

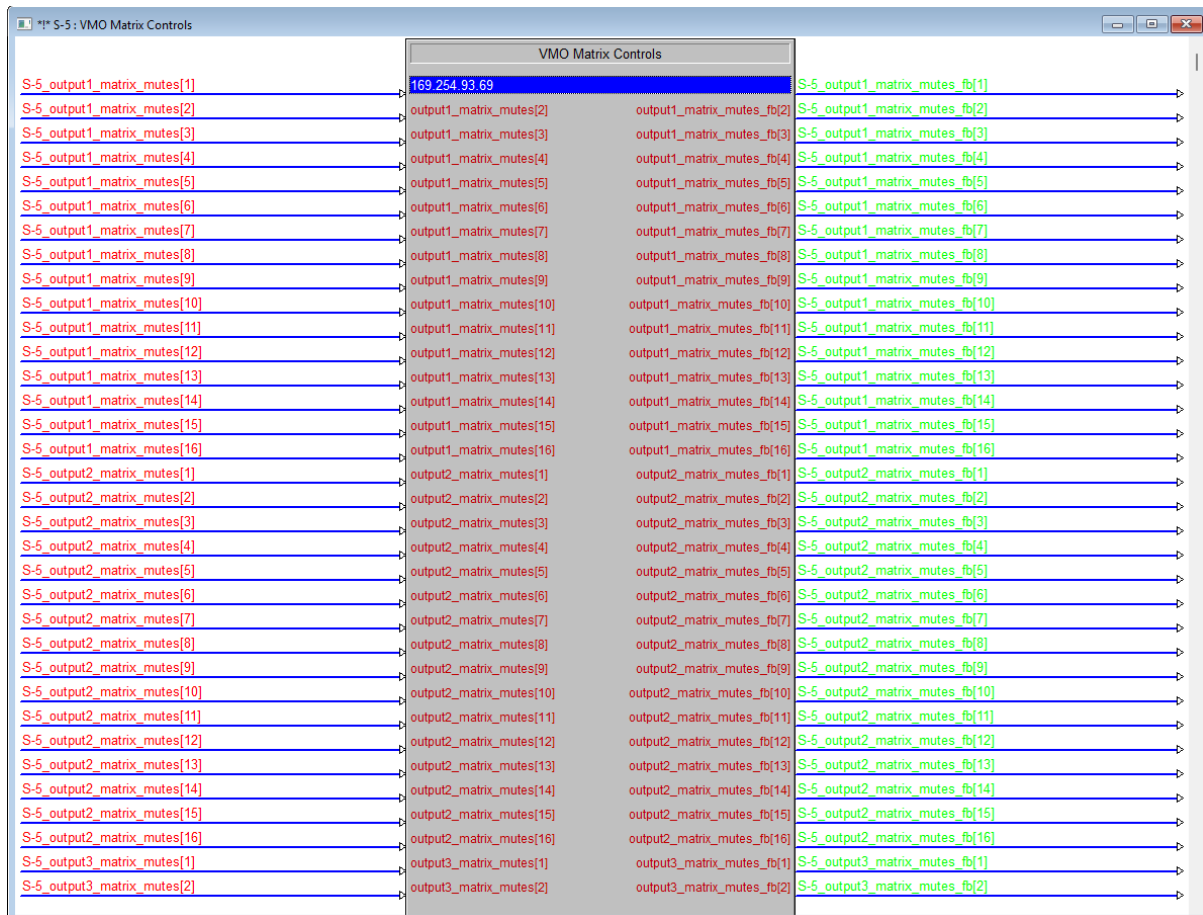
Gain controls take an analog input of dB as *hundredths of a db* e.g. 12.3dB = 1230

Mute controls and global mute are a digital input and can either be on or off: 1 or 0

Preset recall requires you to provide a string of the number preset you wish to recall and then will instantly recall when this is sent.

The parameter box at the top of the module takes an IP address and is required to specify the address of the VMO16 device you wish to control.

Network Matrix Module



The network matrix module is used to control the gains and mutes for the network matrix for the VMO16.

Gain controls take an analog input of dB as *hundredths of a db* e.g. 12.3dB = 1230

Mute controls are a digital input and can either be on or off: 1 or 0

The parameter box at the top of the module takes an IP address and is required to specify the address of the VMO device you wish to control.