

This document provides additional assistance with wiring your Extron IP Link enabled product to your device. Different components may require a different wiring scheme than those listed below.

For complete operating instructions, refer to the user's manual for the specific Extron IP Link enabled product or the controlled device manufacturer supplied documentation.

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***Device Specifications:***

Device Type: Matrix Switcher  
Manufacturer: Extron  
Firmware Version: 1.08  
Model(s): SMX 500, SMX 300, SMX 400

***Minimum Software and Firmware Requirements:***

| IP Link<br>Compiler | IP Link<br>Firmware | GC Version |
|---------------------|---------------------|------------|
| 1.4                 | 1.15                | 3.0        |

***Version History:***

| Driver<br>Version | Date      | Notes  |
|-------------------|-----------|--|
| 1                 | 7/14/2009 | Initial Extron Certified version. Tested on SMX400, firmware v 1.08. |

***Driver Notes:***

# IP Link® Device Interface Ethernet Communication Sheet

## Control Commands & States:

|                                      |                       |                                  |
|--------------------------------------|-----------------------|----------------------------------|
| <b>Audio Mute 1-16</b>               | On                    | Off                              |
| <b>Global Audio Mute</b>             | On                    | Off                              |
| <b>Global Preset Recall</b>          | 1-32                  |                                  |
| <b>Global Video Mute</b>             | On                    | Off                              |
| <b>Input</b>                         | 1-16                  | Break                            |
| <b>Output</b>                        | 1-16                  | All                              |
| <b>Output Control</b>                | 1-16                  |                                  |
| <b>Plane Number</b>                  | 0-15                  |                                  |
| <b>Plane Preset Recall</b>           | 1-10                  |                                  |
| <b>Take</b>                          | Audio-Video           | Audio                      Video |
| <b>Video Mute</b>                    | On                    | Off                              |
| <b>Volume Output 1-16 (Discrete)</b> | 0 to 64 in steps of 1 |                                  |
| <b>Volume Output 1-16 (Step)</b>     | Up                    | Down                             |

## Status Available:

|                                      |                       |  |
|--------------------------------------|-----------------------|--|
| <b>Audio Mute 1-16</b>               | On                    | Off  |
| <b>Connection Status</b>             | Connected             | Disconnected   |
| <b>Fan Status</b>                    | Normal                | Fan Problem                      Status Unavailable          |
| <b>Status</b>                        | Displays Matrix Ties  |  |
| <b>Temperature Status</b>            | Normal                | Temp Abnormally High                      Status Unavailable |
| <b>Video Mute</b>                    | On                    | Off  |
| <b>Voltage Level</b>                 | Normal                | Error                      Status Unavailable                |
| <b>Volume Output 1-16 (Discrete)</b> | 0 to 64 in steps of 1 |  |

**Configuring input output(s) ties on a single button:**

This section will describe how to configure a button with either a single input and output tie or single input to multiple output ties. Please note that there are a minimum of four selections required when configuring a tie in this method.

To configure a button with a single input and a single output tie follow the steps below.

1. Select the plane you want to use.
2. Select the desired input from the “input” command.
3. Select the desired output from the “output” command.
4. Select the type of desired take from the “take” command.

To configure a button with multiple inputs and outputs repeat the steps above then follow the steps below.

1. Insert a one second delay.
2. Select the next desired output from the “output” command.
3. Select the next desired take from the “take” command.
4. Repeat as many times as desired.

**Configuring for direct matrix front panel emulation:**

This section will describe how to configure a panel to produce an input output selection capability.

To configure a panel button input, create the following button operation.

1. Select the desired plane you wish to use.
2. Select the desired input from the “input” command.

To configure a panel button output, create the following button operations.

1. Select the desired output from the “output” command.
2. Select the desired take from the “take” command.

**Configuring for audio control:**

This section will describe how to configure the panel to control audio using the encoder knob. Please note that there are a minimum of two selections required when configuring audio control.

To configure the panel encoder knob, create the following button operations.

1. Select the desired plane you wish to use.
2. Select the desired audio control from either the “Volume (step) or Volume (discrete)” command.

Note: Plane selected must support Audio. Audio Mute, Audio Gain/Attenuation (step) and Audio Gain/Attenuation (discrete) commands are dependent on the Output Control command, which sets the audio output to be controlled and polled for status. Thus only one audio output can be controlled and polled at a time. Global Audio Mute is the only control that affects all audio outputs and is not dependent on the Output Control command.

***Network communication:***

When configuring the Ethernet driver, be sure device settings match that of the GC configuration.

When configuring for a password, Administrator login is required and the password must have a minimum of 4 or maximum of 12 characters.

**Port Type:** Ethernet

**Default User Name:**

**Default Password:**

**Default Port:** 23

**Multi-Connection** Yes

**Capabilities:**

**Port Changeability:** Yes

**Logon Credentials** Yes

**Supported:**

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***Ethernet Driver Configuration Description:***

Please refer to manual for setting and changes to Network Communication parameters such as: User Name, Password, and Port Number. Please look to Chapter 4: Software Configuration and Control for modification.

Changes to parameters can also be made through device default web pages in the Configuration Tab under System Settings.

***Notes for the Device:***