

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.

Device Specifications:

Device Type: Audio Processor
 Manufacturer: Biamp
 Firmware Version: 3.401-2.3-4.600
 Model(s): Nexia

Minimum Software and Firmware Requirements:

| IP Link Compiler | IP Link Firmware | GC Version |
|------------------|------------------|------------|
| 1.4.0 | 1.15 | 3.2.0 |

Version History:

| Driver Version | Date | Notes |
|----------------|----------|--|
| 9 | 9/8/11 | Extron Certified. Fixed Hook status. Tested on AudiaFlex. |
| 5 | 3/23/11 | Extron Certified. Added Room Combine controllability. Reorganized Redial and Flash command per device type standard. Remove Scaled Volume. Tested on Nexia PM. |
| 4 | 12/8/10 | Extron Certified. Added Volume control for tag 11 to 15 with channel 1 and 2. Tested on Nexia PM. |
| 3 | 10/15/10 | Extron Certified. Added Device ID and Level Step Size. Tested on Nexia PM. |
| 2 | 7/6/10 | Extron Certified. Tested on Nexia PM. Took out Redial and Speed Instance ID. Changed step volume to .5db per step. Added discrete volume control for Instance ID Tag 1 to 10. Added discrete mute control for Instance ID Tag 1 to 10. |
| 1 | 10/27/09 | Extron Certified. Initial version. Tested on an AudiaFlex. |

Driver Notes:

Nexia uses an Instance ID number to specify the exact DSP block to be controlled. Custom names (Instance ID Tags) may be assigned to DSP blocks, and used in lieu of Instance ID numbers within NTP (Nexia Text Protocol) command strings. Instance ID Tags may be up to 32 characters, but may not start with a number. If the Instance ID Tag includes spaces, it must be double-quote delimited ("Instance ID Tag") when used in a command string.

The Instance ID number (and Instance ID Tag) can be found by first making sure the “Properties” attribute of a control block is enabled by right-clicking the DSP block and selecting "Properties". Then hover over the “Property Sheet” tab on the left and both identifiers are available in the DSP Attributes 1 tab.

To simplify instance ID tag naming within the driver, a capital letter and a number are used as the Instance ID Tag for a variety of control blocks.

The following AudiaFlex configuration blocks correspond to the following driver commands:

| Command Name | Tag Letter | Tag Range | Corresponding AudiaFlex Control Block |
|-------------------------------------|------------|-----------|---|
| Dial Keypad | D | 1 ~ 16 | TC - Dialer (Double Click) |
| Logic State | L | 1 ~ 32 | Logic State |
| Mute | M | 1 ~ 32 | Mute |
| Phone Input Level Receive Mute | I | 1 ~ 16 | TC - Receive |
| Phone Output Level Transmit Mute | O | 1 ~ 16 | TC - Transmit |
| Preset Recall | N/A | N/A | Preset Button |
| Hook | D | 1 ~ 16 | TC – Dialer (This logic resides in the Dialer block, use this command to hang up. |
| Volume | V | 1 ~ 16 | Level |
| Room Combine | RC | 1 to 32 | Room Combine |

For example, in order to configure “Volume” to a MLC 226 IP front panel volume knob, drag and drop “Volume” on to the knob itself and configure “Volume Instance ID Tag X” and “Volume Channel X” to a separate button. Then in the AudiaFlex configuration software, drag and drop a “Level Control” from the “Processing Library” to the grid, then click the “Property Sheet” tab -> “DSP Attributes 1” tab and enter in “VX” in the instance ID tag text field.

There are two ways to dial a number:

- First way: Set Hook to Off, then press the digit to be dial. This method is similar to dial from home phone, pick up the handset and dial the number.
- Second way: If Hook is On, press the digit to be dial and press the Hook Off button, this will send all the digits out. This method is similar to make a call from a cell phone; you press all the number and then press the send button.

All instance ID tag and Channel are set to 1 by default.

IP Link® Device Interface Ethernet Communication Sheet

Control Commands & States:

| | | | |
|--|----------|-------|--------|
| Device ID | 1 to 5 | | |
| Dial Keypad¹ | 0 to 9 | * | # |
| | Pause | Clear | Delete |
| Dial Keypad Instance ID Tag | 1 to 16 | | |
| Hook¹ | On | Off | Redial |
| | Flash | | |
| Logic State² | 0 | 1 | |
| Logic State Channel | 1 to 16 | | |
| Logic State Instance ID Tag | 1 to 32 | | |
| Mute³ | On | Off | |
| Mute Channel | 1 to 16 | | |
| Mute Inst ID Tag 1 to 15 Ch 1 to 2 | On | Off | |
| Mute Instance ID Tag | 1 to 32 | | |
| Phone Input Level | Up | Down | |
| Phone Level Instance ID Tag | 1 to 16 | | |
| Phone Line | Analog | VOIP | |
| Phone Output Level¹ | Up | Down | |
| Preset Recall | 1 to 128 | | |
| RC Instance ID Tag | 1 to 32 | | |
| RC Channel | 1 to 16 | | |
| Receive Mute¹ | On | Off | |
| Room Combine | Up | Down | |
| Room Combine Inst ID Tag 1 to 2 Ch 1 to 2 | Up | Down | |
| Speed Dial¹ | 1 to 16 | | |

IP Link® Device Interface Ethernet Communication Sheet

| | | |
|---|----------------------------|--------|
| Transmit Mute¹ | On | Off |
| Vol Inst ID Tag 1 to 15 Ch 1 to 2 | -100 to 12 in steps of 0.5 | |
| Vol Inst ID Tag 1 to 15 Ch 1 to 2 Step | Up | Down |
| Vol Step Size⁵ | 0.5 | 1 to 5 |
| Volume (Discrete)⁴ | -100 to 12 in steps of 0.5 | |
| Volume (Step)⁴ | Up | Down |
| Volume Channel | 1 to 16 | |
| Volume Instance ID Tag | 1 to 32 | |

Note:

1. These commands will control the selected id in Dial Instance ID Tag, therefore it require the selection of this ID Tag prior to the use of these commands.
2. These commands will control the selected id in Logic State Instance ID Tag, therefore it require the selection of this ID Tag prior to the use of these commands.
3. These commands will control the selected id in Mute Instance ID Tag, therefore it require the selection of this ID Tag prior to the use of these commands.
4. These commands will control the selected id in Volume Instance ID Tag, therefore it require the selection of this ID Tag prior to the use of these commands.
5. This Step Size select will select the size that the Step volume will increase by. By default this is 0.5db.

**IP Link® Device Interface
Ethernet Communication Sheet**

Status Available:

| | | |
|--|----------------------------|--------------|
| Connection Status | Connected | Disconnected |
| Hook | On | Off |
| Logic State | 0 | 1 |
| Mute | On | Off |
| Mute Inst ID Tag 1 to 15 Ch 1 to 2 | On | Off |
| Phone Line | Analog | VOIP |
| Receive Mute | On | Off |
| Room Combine | Up | Down |
| Room Combine Inst ID Tag 1 to 2 Ch 1 to 2 | Up | Down |
| Transmit Mute | On | Off |
| Vol Inst ID Tag 1 to 15 Ch 1 to 2 | -100 to 12 in steps of 0.5 | |
| Volume (Discrete) | -100 to 12 in steps of 0.5 | |

**IP Link® Device Interface
Ethernet Communication Sheet*****Network communication:***

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

| | |
|-------------------------------------|----------|
| Port Type: | Ethernet |
| Logon Credentials Supported: | No |
| Default Port: | 23 |
| Multi-Connection Capable: | Yes |
| Port Changeable: | No |

Ethernet Driver Configuration Description:

Please refer to user manual for settings and changes to the network communication parameters.

Notes for the Device: