Atlas BlueBridge Mixer/Router

Module Setup Guide for Hard Coded Control Names

About:

AtlasIED BlueBridge® networkable DSP devices are powerful and flexible tools offering mission critical solutions to satisfy the exact needs of any installation. Engineered to strict standards with the highest quality internal components, BlueBridge® devices provide pure clean audio, Ethernet connectivity for cost effective TCP/IP control and easy programmability.

Device Setup:

Please use the BlueBridge PC software for this part of setup. The Gain, Connect, and Enable objects must be programmed with Compass Control 3rd party control names for the Mixer control block.

Load the unit's project file but do not connect to the device. Compass Control requires a list of the 3rd party control names, which are only available to be configured by loading the project file.

Locate the Mixer's Input Gain, Input Connect, Output Gain and Output Enable controls. Using your keyboard and mouse use CTRL + Right Mouse Click to open the properties to create/rename the 3rd party control name for that element. Please follow this scheme for the Hard-Coded modules, replacing <out#> with the output numerical value and <in#> with the input numerical value:

- Mixer Input Gain
  - MIXER_GAIN_O-<out#>_I-<in#>

- Mixer Input Connect
  - MIXER_CONNECT_O-<out#>_I-<in#>

- Mixer Output Gain
  - MATRIX_GAIN_O-<out#>

- Mixer Output Enable
  - MATRIX_ENABLE_O-<out#>

Example 3rd party control names for a 2x4 system:
- MIXER_GAIN_O-1_I-1
- MIXER_GAIN_O-1_I-2
- MIXER_GAIN_O-1_I-3
- MIXER_GAIN_O-1_I-4

- MIXER_GAIN_O-2_I-1
- MIXER_GAIN_O-2_I-2
- MIXER_GAIN_O-2_I-3
- MIXER_GAIN_O-2_I-4

- MIXER_CONNECT_O-1_I-1
- MIXER_CONNECT_O-1_I-2
- MIXER_CONNECT_O-1_I-3
- MIXER_CONNECT_O-1_I-4

- MIXER_CONNECT_O-2_I-1
- MIXER_CONNECT_O-2_I-2
- MIXER_CONNECT_O-2_I-3
- MIXER_CONNECT_O-2_I-4

- MATRIX_GAIN_O-1
- MATRIX_GAIN_O-2

- MATRIX_ENABLE_O-1
- MATRIX_ENABLE_O-2

Once complete, upload the project to set the 3rd party control names to the live unit. The project must be uploaded to the device for 3rd control to work.

Once uploaded, go back to project mode and under the "Project" tab, select "Device 3rd Party Control Elements…". This is the list of all elements used in the system. Export the list for reference when programming in Compass Navigator.

Add Module:

Please open Compass Navigator for setup.

In Compass Navigator, open the desired project to add the BlueBridge module. For Mixer Control, please add the Atlas Hard-Coded Mixer module and for Router Control, please add the Atlas Hard-Coded Router Module. Please note that each BlueBridge Unit requires its own Module for control. Add as many modules as required.

Setup Communication:

BlueBridge units are controlled over TCP/IP on Port 10007.

In Compass Navigator, please insert the IP Address under Device Properties. Please note that each BlueBridge unit requires its own module. Apply the IP Address to each module accordingly.

Setup Login:

In Compass Navigator, click on the BlueBridge device properties tab located under IP Devices. If the Interface is password protected, then enter the password under "Password". Click on "Login type" and set the value to "Common". These credentials are required for proper operation.

Variable Setup in Module Editor Mode:

Using Compass Navigator, right click on the BlueBridge device and click "Edit Module" to jump into Module Editor (also located in the project's "_res" folder).

In Compass Navigator Module Editor, click on the Variables tab located under Controller Designer. Here you will find the "_Programmer_BlueBridge" variables that must be set to control the BlueBridge unit.

#1 - In the variables tab, click on the variable, _Programmer_BlueBridge_Input_Names array. In the Variable Properties window, locate "Variable Type" and change the "Any" value with the actual number of Inputs in the system. Next, locate the "Initial Value" field and click on the "…" button. For each Input number, fill in each line with the Input's friendly name, one name per line. This name will display above the Input controls. The module will not work with undefined inputs.

#2 - In the variables tab, click on the variable, _Programmer_BlueBridge_Output_Names array. In the Variable Properties window, locate "Variable Type" and change the "Any" value with the actual number of Outputs in the system. Next, locate the "Initial Value" field and click on the "…" button. For each Output number, fill in each line with the Output's friendly name, one name per line. This name will display above the Output controls. The module will not work with undefined outputs.

Setup Complete

The module setup is complete. Save the module and open the project back up. Upload and update the project for use.

Compass Control® Pro Offers:

- Preset Control

- Mixer and Router Control
  - Output and Input Name Display
  - Output and Input Gain
  - Input Connect
  - Output Enable