Integrating the Button Processor Super-Module

A new and exciting feature of Composer 3.0 is the native support of both Shure and Audio-Technica Dante-enabled microphones. One new tool we have created here at Symetrix is a new super-module called the Button Processor. This tool makes it extremely easy to integrate these microphone’s push-to-talk switches into your SymNet DSP. Four different modes are available per mic switch; Push to talk, Push to Mute, Toggle, and Disabled. This super-module can also be used with standard momentary (non-latching) analog switches as well. 1-button, 4-button and 8-button versions are included in Composer 3.0’s super-module library.

Begin by importing a 1-Button Processor super-module into the design:

Dante-enabled Audio-Technica and Shure Mics:

The process for both Audio-Technica and Shure microphones is the same unless otherwise noted.
1. Drag in a 1-Button Momentary module from the toolkit, and wire to the “Button 1” input on the super-module.
2. Double-click the 1-Button Momentary module to bring up its GUI. Right-click directly on the “On” button, then click “Set Up to Remote Control” and select the relevant Audio-Technica or Shure device from the “Remote Control Device” dropdown menu.

3. From Control Modules->Control Outputs, drag in a “Remote Logic Output” module. In the Remote Logic Output Properties window, choose the Audio-Technica or Shure device, as well as the Green LED option.

4. Wire the super-module output labeled “1 On/G” to the input of the Remote Logic Output from step 4.

5. From Control Modules->Control Outputs, drag in a second “Remote Logic Output” module. In the Remote Logic Output Properties window, choose the Audio-Technica or Shure device, and the Red LED option.
6. Wire the super-module output labeled “1 Off/R” to the input of the second Remote Logic Output from step 7. Assuming you’ve set up the receive flow to bring the Dante mic’s audio into the DSP, your site file should now look something like this.

7. Navigate to the Mute button for the mic channel you’re planning to control. Right-click it, select “Set Up Remote Control” and choose “Control Signal Assignment”. Click the “Select” button, and click the plus sign next to “1-Button Processor”. Highlight “1 Off/R”, then click OK.

8. Open the super-module user interface and select the preferred switch mode. Go online and test the switch while watching the super-module GUI. The Input LED will light when the switch is closed, and the On/Mute LEDs will respond accordingly.
For momentary analog switches (connected to an External Control Input on the DSP):

1. Drag in a 1-Button Momentary module from the toolkit, and wire to the “Button 1” input on the super-module.

2. Double-click the 1-Button Momentary module to bring up its GUI. Right-click directly on the “On” button, then click “Set Up to Remote Control”. Choose “Local Analog Input”, then select the physical External Control Input number the analog switch is wired into.

3. Go to the Mute button that is to be controlled by the switch. Right-click it, select “Set Up Remote Control” and choose “Control Signal Assignment”. Click the “Select” button, and click the plus sign next to “4-button Processor”. Highlight “1 Off/R”, then click OK.

4. Open the super-module user interface and select the preferred switch mode. Go online and test the switch while watching the super-module GUI. The Input LED will light when the switch is closed, and the On/Mute LEDs will respond accordingly.

5. Repeat the process for more momentary switches.