Genelec Smart IP Speaker Module

|  |  |
| --- | --- |
| Version | 1.0.0 |
| Simpl+ Module filename | Genelec\_Speaker\_1.0.0\_SE.usp |
| Simpl# Library filename | Genelec\_Speaker\_CSharp.clz |
| Tested on processor | CP3 |
| Tested on processor firmware | 1.603.0113 |
| Tested on device model | Genelec 4430A |
| Tested on device firmware | 44x0-1.1.11-202007021238 |
| Developed by | Niklas Olsson – JaDeVa AB |

**Summary:**

This module integrates with Genelec Smart IP Speakers, such as 4430A

**Release notes:**

* 1.0.0
  + Initial release

|  |  |
| --- | --- |
| PARAMETERS |  |
| Device\_Ip\_Param | The IP address or Hostname of the device to control. |
| Device\_Port\_Param | The port number to connect to. Default: 9000 |

|  |  |
| --- | --- |
| INPUTS |  |
| Debug | Enables debugging messages to console. |
| Poll\_Device\_Info | On rising edge of this signal it will poll the device for the following serial outputs: **Model**, **Firmware\_ID**, **Build**, **Base\_ID**, **Hardware\_ID**, **Category**, **Technology** and **API\_Version**. |
| Poll\_Power\_and\_Audio | While signal is high, the module will continuously poll for Power and Audio. This poll includes the following signals: **Power\_Active\_FB**, **Power\_Standby\_FB**, **Power\_15W**, **Mute\_On\_FB**, **Mute\_Off\_FB**, **Volume\_Level\_Percent\_FB**, **Volume\_Level\_dB\_FB**, **Volume\_Level\_dB\_FB\_Text**, **Allocated\_PoE\_Power**. |
| Power\_Activate  Power\_Standby  Power\_Boot | Sets the power state of the speaker. Boot will reboot the speaker. |
| Mute\_On  Mute\_Off  Mute\_Toggle | Sets the mute state of the speaker. |
| Volume\_Level\_Percent | Sets the volume level.  Range: 0-65535 (0-100%) |
| Volume\_Level\_dB | Sets the volume level in dB from -130 to 0 dB in tenths.  Range: -1300 - 0 (dB x 10) |
| Recall\_Profile | Restore profile from flash and set it as an active profile.  Range: 0-5, |
| Recall\_and\_Set\_Startup\_Profile | Restore profile from flash and set it as an active profile.  This will also be set as the profile that is recalled after a power reset.  Range: 0-5 |
| Device\_IP | The IP address or Hostname of the device to control. |
| Device\_Port | The port number to connect to. |

|  |  |
| --- | --- |
| OUTPUTS |  |
| Responding | High if the device responded to the last command. |
| Power\_Active\_FB  Power\_Standby\_FB | The current power state of the speaker. |
| Power\_15W | High if PoE PD (loudspeaker) limits current consumption to 15W.  Low if full power is needed (30W). |
| Mute\_On\_FB  Mute\_Off\_FB | The current mute status. |
| Volume\_Level\_Percent\_FB | The current volume level in percent.  Range: 0-65535 (0-100%) |
| Volume\_Level\_dB\_FB | The current volume level in dB from -130.0dB to 0.0dB in tenths of a decibel.  Range: -1300 - 0 (dB x 10) |
| Volume\_Level\_dB\_FB\_Text | The current volume level in dB as a string.  Example: -25.5 |
| Allocated\_PoE\_Power | The power allocated by PoE PSE (switch) in tenths of a watt.  Range: 0-300(?) |
| Model | Device model name. Example: 4430 |
| Firmware\_ID | Firmware identification number in format model\_base-major.minor.revbuild\_date\_and\_time.  Example: 44x0-1.1.11-202007021238 |
| Build | Committed GIT revision number. -modif means that uncommitted source code is used when creating firmware.  Example: c5ca14 |
| Base\_ID | Platform software version number in format major.minor.rev.  Example: 1.0.0 |
| Hardware\_ID | Hardware version string. |
| Category | Category. Example: SAM\_2WAY |
| Technology | Technology. Example: SAM\_IP |
| API\_Version | API version. Example: v1 |

**Support for custom commands**

We have prepared so you can add your own custom commands to the Simpl+ module without changing the S# side.

**To send a GET-request use:**  
\_device.CustomGet(url);

**Example:**   
String jsonResponse[255];  
jsonResponse = \_device.CustomGet("public/v1/audio/volume");

**To send a PUT-request use:**  
\_device.CustomSet(url, json);

**Example:**  
Integer success;  
success = \_device.CustomSet("public/v1/audio/volume", "{\"level\":-23.5}");  
if (success)  
 //command success  
else  
 //command failed