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
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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
```