Sennheiser CHG4N

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| Version | 1.0.0 |
| Simpl+ Module filename | Sennheiser\_CHG4N\_1.0.0\_SE.usp |
| Simpl# Library filename | Sennheiser\_Modules\_CSharp.clz |
| Tested on processor | CP3 |
| Tested on processor firmware | 1.601.0050 |
| Tested on device model | Sennheiser CHG 4N |
| Tested on device firmware | 1.1.0 |
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**Summary:**

This module integrates with Sennheiser CHG-4N, a battery charger for Sennheiser Handmics and Bodypacks.

**Release notes:**

* 1.0.0
  + Initial release

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| PARAMETERS |  |
| Device\_IP\_Param | The IP-address of the device we will connect to.  If you want to be able to change this during runtime, instead use serial input **Device\_IP** |
| Device\_UDP\_Port\_Param | The UDP port of the device we will connect to. This should most likely always be 45d  Default: 45d |

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| INPUTS |  |
| Connect | Opens the connection to the device when signal is high. I you use the parameters to set Device Ip and Port, you may define this signals as ’1’ |
| Debug | Enables debug messages to be printed to the text console while signal is high. Make sure this is not left high when not used. |
| Enable\_Incoming\_Commands | When set to high, all received data from the device will be outputed on the serial output **Incoming\_Command\_FB**. |
| Set\_Name | Sets the name of the device.  Max length: 8 characters. |
| Set\_Group | Sets the group (location) of the device.  Max length: 8 characters.  Allowed chars: 0-9, -, \_, A-Z, a-z (comma not included)  Must start with a letter  May not start or end with a – or \_ |
| Send\_Custom\_Command | Makes it possible to send your own commands to the device. Refer to the Sennheiser Sound Control Protocol (SSC).  Example command: {"device":{"reset":true}} |
| Device\_IP | The IP-address of the device we will connect to.  Make sure you connect after this is set. |
| Device\_UDP\_Port | The UDP port of the device we will connect to. This should most likely always be 45.  Make sure you connect after this is set. |

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| OUTPUTS |  |
| Responding\_FB | This is high as long as the device is responding. As the protocol uses UDP there is no connection state, so it might take up to a minute before responding goes low after the device has stopped responding. |
| Bay\_Active\_FB[x] | This is high as long as there is a device inserted in the corresponding charging bay. |
| Bay\_Charging\_FB[x] | This is high as long as the inserted device is charging. |
| Name\_FB | The name of the device. |
| Group\_FB | The group (location) of the device. |
| Product\_FB | The product name of the device. Example: CHG4N |
| Version\_FB | The firmware version of the device. Example: 1.1.0 |
| Serial\_FB | The serial number of the device. Example: 1234567890 |
| Mac\_Addresses\_FB | The mac adresses of the device. Example: 00:1B:66:11:22:33 |
| Incoming\_Command\_FB | If you set the digital input **Enable\_Incoming\_Commands** high, this will output all the received data from the device.  The use case for this would be to extend the functionality of the module. |
| Bay\_Battery\_Gauge\_FB[x] | The current battery level of the inserted device.  Range: 0-65535 (0-100%) |
| Bay\_Battery\_Health\_FB[x] | The current battery health of the inserted device.  Range: 0-65535 (0-100%) |
| Bay\_Minutes\_To\_Full\_FB[x] | The number of minutes it will take to fully charge the battery of the inserted device. |
| Bay\_Device\_Type\_FB[x] | The inserted device type:  1 = Handheld  2 = Bodypack |
| Bay\_Serial\_FB[x] | The serial number of the inserted device. |