Sennheiser CHG4N

Version	1.1.0
Simpl+ Module filename	Sennheiser_CHG4N_1.1.0_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
Developed by	Niklas Olsson – JaDeVa AB

Summary:

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

Release notes:

- 1.1.0
  - Added serial outputs Bay_IPEI_FB[x] and Bay_Last_Paired_RFPI_FB[x]
- 1.0.0
  - Initial release

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

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.

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.
Bay_IPEI_FB[x]	The IPEI number of the inserted device.
Bay_Last_Paired_RFPI_FB[x]	The last paired RFPI number of the inserted device. This can be used to identify which receiver the inserted device is paired with.