Manual: How to connect YAMAHA Genos keyboard mit SongBook+
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1 Introduction

This manual describes how to connect SongBook+ with the new Yamaha Genos keyboard.

Information how to connect Yamaha Tyros or Yamaha PSR keyboards can be found in another manual named „How to connect YAMAHA keyboards with SongBook+“. (The old connection as described in that manual is still possible with Genos, but we recommend to use the new connection as described here in this manual.)

2 What are the benefits of connecting SongBook+ with Genos?

2.1 SongBook+ controls Genos
When a song in SongBook+ is opened, SongBook+ can send MIDI commands to select the corresponding registration in the connected keyboard. So you don’t have to manually switch anything on keyboard during your performance to start playing the next song.

2.2 Genos controls SongBook+
If you prefer to select your song from a registration on the keyboard, then the other direction of remote control is available. SongBook+ can automatically open the matching song and display the corresponding PDF file as soon as you select a registration on the keyboard.
3 How do I connect SongBook+ with my Genos?

3.1 Using WiFi to directly connect the keyboard

The Yamaha Genos has a build-in WLAN connector. It can either connect an existing WiFi network (Infrastructure Mode) or act as WiFi Hotspot (Access Point Mode).

The Yamaha Genos can then act as a Wireless MIDI Server and SongBook+ is the Wireless MIDI Client. In the MIDI Settings of SongBook+ you activate the Wireless MIDI Client and add the IP address of the Genos as host.

The easiest way to connect the Genos is in “Access Point Mode”. In this mode the keyboard creates its own WiFi network and you need to select in the WiFi settings of the iPad this WiFi network of the keyboard (“ap-Genos-...”). The IP address of the Genos is then 192.168.0.1.

Alternatively, you can integrate the Genos into an existing WiFi network, but the IP address of the Genos will then be different.
In the keyboard you can find the settings for WiFi connection with the button „MENU“, then change to the tab „Menu2“ and select „Wireless LAN“. 
3.2 Using a Bluetooth LE MIDI Adapter

You can also find wireless MIDI Adapters that are recognized by the operating system of the iPad as Bluetooth MIDI LE devices and these can be used by compatible apps. Pairing of the adapter in the Bluetooth settings of the iPad is not needed. SongBook+ has a “Bluetooth LE MIDI devices” function to establish the connection to the adapter. (e.g. Yamaha MD-BT01, Yamaha UT-BT01, QuiccoSound mi.1, Zivix PUC+)

Note that the Bluetooth LE MIDI is supported only by iPad 3 or later.
### 3.3 Using USB-MIDI directly to the keyboard

Keyboards with a USB to Host port can be connected using a USB printer cable. As the iPad doesn’t have a USB connection, you need an adapter (commonly called a camera connector) to connect the iPad with the USB cable.

![USB-MIDI connection diagram](image)

### 3.4 Using a USB to 5-pin MIDI adapter

Many USB to MIDI cables can be also used with the iPad. The cable is connected to the 5-pin MIDI port (either midi A or midi B). Since the iPad doesn’t have a USB connection, you need a camera connector to connect the USB end of the cable to the iPad.

![USB-MIDI adapter diagram](image)

To avoid the adapter draining the iPad’s battery, you can use an active USB Hub (with power supply) between the iPad and USB MIDI adapter.
3.5 Using a MIDI adapter that can be connected directly to iPad
You can also find MIDI cables that are designed for use with Apple iOS devices (iPad, iPhone, etc). For these cables, the camera connector is not needed.

Note that only a few of these adapters can charge the iPad while it’s being used. Consider that feature when buying such an adapter. (e.g. adapters like iConnectMIDI2+/4+, Alesis ioDock, Behringer iStudio IS202 or the iRig MIDI only in the old version 1 can charge the iPad.)
4 Check the MIDI connection

In the toolbar of SongBook+ you can find a MIDI button with integrated MIDI activity indicator. There you can see if the MIDI connection is working correctly and the iPad is receiving MIDI signals from keyboard.

If the connection is not established automatically, you can find here also a function „Restart MIDI“ to re-establish the connection.
5  MIDI settings on keyboard

There are no specific MIDI settings required in the keyboard.

6  MIDI settings in SongBook+

In MIDI settings of SongBook+ it is recommended to enable the switch „Show MIDI button in Toolbar“.

MIDI-IN and MIDI-OUT must be enabled.

As control mode select „YAMAHA Genos Registrations (with link)“. 

![MIDI settings in SongBook+](image-url)
7 Link a song to a registration

Linking a song in SongBook+ with a registration bank or a specific registration is very easy and is done in 3 steps:

1. Open the song to be linked in SongBook+

2. Select the registration bank or registration in Genos.

3. Execute the function „Now link the song“ in SongBook+.

A short message is displayed to confirm successful linking.

Starting from then you can either select a song in SongBook+ or select a registration bank or registration in Genos and then the other is also changed automatically.

However, if you temporary want to disable automatic switching, press the MIDI button and remove the checkmarks from „MIDI-IN“ and „MIDI-OUT“.

Remark for former Tyros users:
If you still have enabled the switch “Send MIDI command on open” in your songs to change registrations on Tyros, please disable this switch in your songs. Since Genos registrations can still be changed with these commands, it will conflict with the new link method.
8 Moving registrations in keyboard

If you move already linked registration banks in the keyboard or rename the folder containing linked registrations, then the link is broken.

You can then re-link the registration or registration bank with the function „Relink the song“.

If SongBook+ detects that it is still the same registration bank but only the containing folder was renamed or moved, SongBook+ will search for other songs linked to registration banks in the same folder. If yes, you will be asked if the other songs should be modified also.