WiFi System Interface

Users Manual

Rev 1 (4/2012)

Inputs: iPad or iPhone

Outputs: 6 RS-232 Outputs
6 12 Volt Trigger Output
WiFi System Interface
Users Manual

What does it do?
This product allows an iPad or iPhone to replace all the functions of an MSB remote, and the front panel and display on all MSB products. It does not act as a music player or music server.

How is it useful?
The DAC IV and MSB transports provide many simple and some more complex features and tools to help you get the best possible sound from your system. They are normally accessible through the front display and menu structures. As every system is different you really must listen to the various setup options to evaluate them. Seeing all the options on your iPad and being able to change them with a simple touch allows you to much more easily fully optimize your setup. Although this product does not affect the sound quality directly, the ease in which you can optimize your system will undoubtably result in greatly improved sound.

Setup and Quick Start

There are 3 steps required to set up this system. Make the connections, Configure the WiFi Interface and download the Apps. You will also need an iPad or iPhone to use the product.

Power - A 12 VDC power supply is included.

Outputs - Each MSB product to be controlled must be connected to the WiFi Interface with a RS-232 cable or 12 Volt Trigger cable.

All these products can be controlled with your iPhone or iPad.
Step ONE - Make the Connections

This unit can control 6 products via RS-232 and can turn the power on and off an additional 6 products using a 12 V trigger. Any product to be controlled must be connected with a RS-232 cable to the WiFi Interface. Any product to be powered on and off must be connected with a headphone cable to the 12 V power plug on the product. The same cable can be used for most MSB products.

Power

This product requires a 12 V power supply to operate. A small power adapter is supplied. There is also an auxiliary power connector provided on the Signature Transport Power Base which will power the product to reduce the cable clutter.

RS-232 Connections

All current MSB products are provided with a RS-232 connector. We use a stereo headphone jack on all products except the Universal Media Transport which uses a DB-15 connector. Cables are provided in different lengths for your convenience. Some older MSB products were not shipped with the RS-232 connector in place but the hole on the back panel and the internal connector is on the board. Contact MSB and we can send you an internal cable which will provide the required connector on the back panel.

12 Volt Trigger

MSB Amplifiers and Power Bases come with a 12 Volt trigger connector on the back. This bidirectional system allows complete system power control. It also uses stereo headphone connectors so you can use the same type cable for these connections. Please try not to get them mixed up. They are protected and no damage should occur.

Connection to Non-MSB Products

Other products can be controlled with this system. Our interface specifications are provided below. You may need to make special cables to accommodate the connectors used on other products. To add RS-232 codes for other products will take special programming by MSB.

RS-232 and 12 V Trigger Cable for the rest of the MSB products

**12 Volt Remote Trigger wiring.**

If the signal is pulled low:
Unit will turn off.

If the signal is pulled down with a 50K resistor:
Unit will go to standby.

If the signal is left floating:
Unit will remain on.

If the signal is driven with 12 V:
Unit will turn on and switch will be ignored.

**RS-232 Cable for the Universal Media Transport**
**Step 2 - Setting up your WiFi system interface controller**

In order to set up your MSB WiFi System Interface, you need to get it connected to your home wireless network. Before doing so, you need to know the name of your network, the security type, and the password.

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**Step 1.**

Plug in the WiFi interface to the power supply. If properly powered, a small LED will be visible on the right rear corner of the top surface.

Connect to the WiFi network currently being created by your MSB WiFi Plate. It will have the wireless network name MSBWiFi(Device MAC address).

*The sample screens in this manual are from an iPad.*

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**Step 2:**

Navigate to the device configuration page via a web browser. Open up Safari and type 169.254.1.70 into the navigation bar.
Step 3:

When you see the welcome page, look for the Configuration Pages.

On the left side, select the link labeled “Network”

Tap on the drop down list and select “Infrastructure”
Enter in the following information of your wireless network:

IP Address: (Leave the same or change it to one of your choosing)
Gateway: This is the IP address of your router. (Commonly 192.168.1.254)
Subnet Mask: Leave as 255.255.255.0
Network Type: Leave as Infrastructure
SSID: This is the name of your wireless network, i.e. msbengr

Security Type: The two common types are WEP and WPA2. Select the one that matches your network.

If you have a WPA2 network, type in the Pass Phrase.
If you have a WEP network, you might have to type in your wireless key into all 4 spots.

i.e., if you key is abcdefgh, enter
Key 1: abcdefgh
Key 2: abcdefgh
Key 3: abcdefgh
Key 4: abcdefgh
Tap “save.”

On the back of the MSB WiFi plate, when save is pressed you will notice both of the LEDs flashing rapidly. After it has reset, one of the LEDs should come on and blink at a 1 second interval. When the LED blinks, it is indicating that it is connected to the network. This process can take some time. If after a few minutes, if it still has no connection, reset the unit by pressing the reset button on the back. One of your network settings must be wrong.
Step 1.

Use your iPad or iPhone and go the the App Store. Do a search for MSB and select the MSB Remote. Download to your device.

Step 2.

Select the MSB Remote App. You will see a “Synchronizing panels” screen. This is loading the current setup pages and images. This can take a couple minutes depending on your connection. Tap OK when complete.
Step 3

Tap the Panels button. You will then see a Gateways button on the bottom, tap it.

Step 4

Select Edit and then “Add new gateway” under MSB Interface
Step 5

You will see a locating screen. Upon finding a new gateway, you will see the IP address of the WiFi plate. Tap it.
Step 6

Tap “Connect Devices” and add all the MSB devices that are in your system. Don't forget to include “WiFi Interface”
Step 7

Upon completion of adding your devices, you can choose to rename the name of the gateway.
Step 8

Go back to the remote panel. The green symbol in the bottom right indicates that it’s connected to a gateway. The green arrows in the bottom left will indicate that it’s sending the commands to the device.

If the arrows are red, it means you have not assigned the product to a gateway yet. Go back to the previous step and add the devices.

If the bottom right hand symbol is white, it means that no gateway is set up.

If the bottom right hand symbol is red, it means it cannot find the gateway. If this is the case, check and make sure the iPad is connected to your home network. Also check and see if the WiFi plate is connected to your home network by looking for the blinking LED in the back. If the LED is not blinking, it means it is not connected to a WiFi network.