BomeBox™ Quick Start Guide

The Bome Team thanks you for purchasing the BomeBox, a versatile MIDI and network connection and translation box.

Register your BomeBox

Please take the time to register your BomeBox at the following Internet URL:

https://www.bome.com/register

Registering will give you access to software, firmware updates and notifications related to your BomeBox.

Important Safety Instructions

Before using the BomeBox, thoroughly read the following instructions for important information needed for setting up and using your BomeBox safely. Keep this document in a safe place for further reference.

WARNING: To reduce the risk of fire or electric shock, do not expose the device to rain, moisture, dripping or splashing liquids. No objects filled with liquids, such as drinking glasses, shall be placed on the device.

WARNING: To reduce the risk of fire, electric shock, and personal injury, do not expose the device to any liquid or moisture. This symbol is intended to alert you to the presence of uninsulated dangerous voltage inside the enclosure that may cause personal injury.

WARNING: Risk of Electric Shock

Do not place heavy objects on top of the BomeBox.

Do not use excessive force on buttons and connectors.

Do not expose the BomeBox to water or moisture.

Do not keep the BomeBox near any heat sources (e.g. radiators, stoves, amplifiers). Avoid direct exposure to sunlight.

Never keep the BomeBox near any heat sources (e.g. radiators, stoves, amplifiers). Avoid direct exposure to sunlight.

If your BomeBox is powered via PoE, you can use the PoE Out connector to power another BomeBox. You can power up to 3 BomeBoxes by PoE daisy chaining.

You can also use the USB type A port marked ⬅️ to power one other BomeBox. Do not daisy chain more than one BomeBox via USB.

The USB type A port ⬅️ provides a maximum of 1A to connected devices. If connecting devices with a sum of more than 1A, use a powered hub. If the BomeBox is powered via the micro-USB connector from a source with less than 1.3A, the USB connector will provide as much as the incoming power source provides minus approx. 0.3A. When using PoE, the USB A port always provides the full 1A.

Powering USB Gear

In the Web Config, you can reconfigure the Ethernet ports to change the settings! It could even happen when you are performing live. In the WiFi settings, specify a separate password for the WiFi connection.

Web Config Settings

In the Web Config, you can configure your BomeBox settings; setup MIDI ports and MIDI routes; connect it to other BomeBoxes; and manage/start MIDI Translator Pro projects to be executed on the BomeBox.

MIDI Connections

MIDI DIN Ports

The BomeBox provides a standard MIDI DIN input and output port, which can be routed to and from the other MIDI connections.

USB-MIDI Port

The USB type A connector marked ⬅️ allows you to plug in and power your USB-MIDI gear. You can use a USB hub to connect multiple USB-MIDI devices.

MIDI Routes

All available MIDI ports (MIDI DIN, plugged USB-MIDI devices, Network MIDI) can be routed using the MIDI Router in the Web Config. A route consists of a MIDI INPUT and a MIDI OUTPUT. MIDI streams.

Once saved, all MIDI data being received on that MIDI INPUT port will be forwarded to the MIDI OUTPUT port. This creates a MIDI Thru connection, allowing you to merge and duplicate MIDI streams.

By default, every MIDI port is routed to all other ports, except to itself. You can save your current collection of routes as a Route Set and load back such sets later on.

First Steps

For configuring your BomeBox for the first time, the easiest approach is to use WiFi to access the Web Config.

Default Password

By default, the Web Config’s password is the serial number from the sticker at the bottom of the BomeBox. The default WiFi password is empty. We recommend to change both passwords.

WiFi

Press the WIFI button to enable the BomeBox wireless LAN. Once the WiFi LED is on, you can use a laptop, tablet, or smart phone to connect: select the SSID ‘BomeBox’. In a web browser like Safari, Chrome, or Firefox, enter “bomebox.box” or 192.168.153.1 in the address bar to connect to the Web Config.

By default, WiFi is set up as a HotSpot (DHCP server). Alternatively, the Web Config allows you to set up WiFi as client for an existing WiFi router, or as a WiFi access point, relaying the wired Ethernet network.

Ethernet

The two Ethernet connectors on the BomeBox work as a 2-port Ethernet switch: except for PoE, it does not matter which one you use for connecting. By default, the BomeBox Ethernet is set up as DHCP client for connecting it to an existing network with DHCP router. The network name is the box name, by default “BomeBox”.

In the Web Config, you can reconfigure the Ethernet ports to act as DHCP master to provide naming and IP addresses to other connected DHCP clients – effectively replacing a router.

Last, but not least, for advanced users, you can set up the Ethernet ports to use a fixed IP address.

Give your BomeBox a Name

The first thing you should do is to name your BomeBox. When using multiple BomeBoxes, you will only be able to connect them if they have different names.

Change the Password

Once you have entered the Web Config, we recommend to change the password. Otherwise it will be easy for anyone to change the settings! It could even happen when you are performing live. In the WiFi settings, specify a separate password for the WiFi connection.

Power Up!

There are multiple ways to power your BomeBox.

Micro-USB

The port marked USB Power allows you to use a standard micro USB cable to power the BomeBox. Sources for Micro-USB power include:

- a standard cell phone charger (at least 1.5A recommended)
- a powered USB hub
- a Micro USB cable connected to a computer
- an external cell phone power battery pack

Note: the Micro-USB connector is used for power only. It does not allow for data transfer between the BomeBox and a computer or other USB host.

Power over Ethernet

With a Power over Ethernet (PoE) source (e.g. a PoE Ethernet Switch) you can power the BomeBox via the PoE In port.

Daisy Chaining

If your BomeBox is powered via PoE, you can use the PoE Out connector to power another BomeBox. You can power up to 3 BomeBoxes by PoE daisy chaining.

USB Power

The two Ethernet connectors on the BomeBox work as a 2-port Ethernet switch: except for PoE, it does not matter which one you use for connecting. By default, the BomeBox Ethernet is set up as DHCP client for connecting it to an existing network with DHCP router. The network name is the box name, by default “BomeBox”.

In the Web Config, you can reconfigure the Ethernet ports to act as DHCP master to provide naming and IP addresses to other connected DHCP clients – effectively replacing a router.

Last, but not least, for advanced users, you can set up the Ethernet ports to use a fixed IP address.

Give your BomeBox a Name

The first thing you should do is to name your BomeBox. When using multiple BomeBoxes, you will only be able to connect them if they have different names.

Change the Password

Once you have entered the Web Config, we recommend to change the password. Otherwise it will be easy for anyone to change the settings! It could even happen when you are performing live. In the WiFi settings, specify a separate password for the WiFi connection.

Web Config Settings

In the Web Config, you can configure your BomeBox settings; setup MIDI ports and MIDI routes; connect it to other BomeBoxes; and manage/start MIDI Translator Pro projects to be executed on the BomeBox.

MIDI DIN Ports

The BomeBox provides a standard MIDI DIN input and output port, which can be routed to and from the other MIDI connections.

USB-MIDI Port

The USB type A connector marked ⬅️ allows you to plug in and power your USB-MIDI gear. You can use a USB hub to connect multiple USB-MIDI devices.

MIDI Routes

All available MIDI ports (MIDI DIN, plugged USB-MIDI devices, Network MIDI) can be routed using the MIDI Router in the Web Config. A route consists of a MIDI INPUT and a MIDI OUTPUT. Once saved, all MIDI data being received on that MIDI INPUT port will be forwarded to the MIDI OUTPUT port. This creates a MIDI Thru connection, allowing you to merge and duplicate MIDI streams.

By default, every MIDI port is routed to all other ports, except to itself. You can save your current collection of routes as a Route Set and load back such sets later on.

First Steps

For configuring your BomeBox for the first time, the easiest approach is to use WiFi to access the Web Config.

Default Password

By default, the Web Config’s password is the serial number from the sticker at the bottom of the BomeBox. The default WiFi password is empty. We recommend to change both passwords.

WiFi

Press the WIFI button to enable the BomeBox wireless LAN. Once the WiFi LED is on, you can use a laptop, tablet, or smart phone to connect: select the SSID ‘BomeBox’. In a web browser like Safari, Chrome, or Firefox, enter “bomebox.box” or 192.168.153.1 in the address bar to connect to the Web Config.

By default, WiFi is set up as a HotSpot (DHCP server). Alternatively, the Web Config allows you to set up WiFi as client for an existing WiFi router, or as a WiFi access point, relaying the wired Ethernet network.

Ethernet

The two Ethernet connectors on the BomeBox work as a 2-port Ethernet switch: except for PoE, it does not matter which one you use for connecting. By default, the BomeBox Ethernet is set up as DHCP client for connecting it to an existing network with DHCP router. The network name is the box name, by default “BomeBox”.

In the Web Config, you can reconfigure the Ethernet ports to act as DHCP master to provide naming and IP addresses to other connected DHCP clients – effectively replacing a router.

Last, but not least, for advanced users, you can set up the Ethernet ports to use a fixed IP address.

Give your BomeBox a Name

The first thing you should do is to name your BomeBox. When using multiple BomeBoxes, you will only be able to connect them if they have different names.

Change the Password

Once you have entered the Web Config, we recommend to change the password. Otherwise it will be easy for anyone to change the settings! It could even happen when you are performing live. In the WiFi settings, specify a separate password for the WiFi connection.

Web Config Settings

In the Web Config, you can configure your BomeBox settings; setup MIDI ports and MIDI routes; connect it to other BomeBoxes; and manage/start MIDI Translator Pro projects to be executed on the BomeBox.

MIDI DIN Connections

MIDI DIN Ports

The BomeBox provides a standard MIDI DIN input and output port, which can be routed to and from the other MIDI connections.

USB-MIDI Port

The USB type A connector marked ⬅️ allows you to plug in and power your USB-MIDI gear. You can use a USB hub to connect multiple USB-MIDI devices.

MIDI Routes

All available MIDI ports (MIDI DIN, plugged USB-MIDI devices, Network MIDI) can be routed using the MIDI Router in the Web Config. A route consists of a MIDI INPUT and a MIDI OUTPUT. Once saved, all MIDI data being received on that MIDI INPUT port will be forwarded to the MIDI OUTPUT port. This creates a MIDI Thru connection, allowing you to merge and duplicate MIDI streams.

By default, every MIDI port is routed to all other ports, except to itself. You can save your current collection of routes as a Route Set and load back such sets later on.
Network MIDI
The BomeBox implements its own Network MIDI protocol ("NetMIDI") for low latency and low jitter MIDI connectivity from BomeBox to BomeBox (and, optionally, to connected computers). It does not currently support RTP-MIDI, but support is planned to be provided with a firmware update in the future.

For setting up a NetMIDI connection, make sure the two Bome-Boxes (A and B) are connected via Ethernet or WiFi, and that they both have different names (BomeBox A and BomeBox B). Then, go to the Network MIDI section in the Web Config of BomeBox A and click on the Connect button next to the name of BomeBox B. In order to approve the connection, press the blinking Pair button on BomeBox B. Alternatively, you can approve the connection in the Web Config of BomeBox B. Connections are maintained and remembered until manually disconnected or canceled.

MIDI Translator
For advanced users, you can load MIDI Translator Pro project files into the BomeBox on the MIDI Translator Configurations page in the Web Config. All MIDI actions, Rules, timer actions, and preset actions are executed exactly the same as MIDI Translator Pro running on a computer.

MIDI Aliases and ports are assigned by name. If a MIDI port matches an existing port or alias on the BomeBox, it is used directly. Otherwise, you can (and should) assign that alias on the MIDI Ports configuration to configure any un-assigned MIDI Aliases.

In addition to any USB-MIDI devices plugged into the USB port, the following MIDI ports and aliases are available on the BomeBox:

- **BomeBox DIN** The physical MIDI DIN port (input and output)
- **Network 1** Auto-Alias for the first Network MIDI port
- **Network 2...** Auto-Alias for the second Network MIDI port
- **USB 1** Auto-Alias for the first MIDI device connected via USB
- **USB 2...** Auto-Alias for the second MIDI device connected via USB

Network ports can also be accessed by name. A connection to a BomeBox with name "My other BB" will auto-create a MIDI port with name "My other BB".

**LED’s**
- **Power** This LED indicates that the BomeBox is on. It is blinking during boot and during a firmware update.
- **Pair** LED on: at least one NetMIDI connection is established. Blinking slowly: waiting for a remote host to approve a connection (press to cancel). Blinking fast: another NetMIDI host wants to connect to this box (press to approve).
- **WiFi** Indicates if WiFi is enabled. Press to enable or disable. It is blinking when transitioning between states.

**Troubleshooting**
User Support Forums
In case of questions or problems please consult our support team in the discussion forums:
http://www.bome.com/forums/

Advanced Configuration
The advanced configuration (link can be found at the very bottom of the web config) will allow you to tune every aspect of the network configuration of your BomeBox. Please use with care, and only if you know what you are doing.

Network Reset
It’s possible to misconfigure the BomeBox network setup and entirely lose connectivity. If that happens to you, you can prepare a USB thumb drive to reset the network settings. Copy an arbitrary text file to the root folder of the thumb drive, and rename it to: `{serial}_network_reset.txt`

This product is subject to the provisions of the European directive 2002/96/EC. Should the product become damaged beyond repair, or if you wish to dispose of it, it must be disposed of separately from the municipal waste system via designated collection facilities appointed by the government or local authorities. For countries outside of the European Union, observe the regulations of your area and country that relate to the disposal of electronic products.