

Wireless Music Bridge Installation and Setup Guide



Supported Model

C4-WMB-B Wireless Music Bridge

Introduction

The Control4® Wireless Music Bridge lets you play music, Internet radio, and podcasts from your smartphone devices through iOS (AirPlay®), Bluetooth®, Android™ or Windows (using DLNA®). Simply attach the Wireless Music Bridge cables to a Control4 4-Zone Amplifier or Multi Channel Amplifier, add the device to a room in Composer, and you're ready to go. This device supports OS 2.5.0 or later.

The Wireless Music Bridge makes it easy to stream popular Internet music services, such as Pandora® and Spotify®, to any room in a home, using your smartphone. To enjoy separate streams of music, connect one Wireless Music Bridge for each zone on a 4-Zone Amplifier or Multi Channel Amplifier.

The Wireless Music Bridge allows one (1) smartphone/tablet to be connected to the Control4 system at a time. It is possible for multiple phones to connect to the Wireless Music Bridge, but only one phone can output audio. More than one Wireless Music Bridge can be used in a Control4 system simultaneously, allowing individual users to connect their phone to their room of choice.

Each Wireless Music Bridge can be given a unique name that appears on their smartphone/tablet and can be assigned to a specific room. It is also possible to assign the Wireless Music Bridge to an individual, so that the individual can listen to his/her music in their room of choice.

This device uses Ethernet or WiFi connectivity to communicate with the Control4 system.

Requirements

- Control4 OS 2.5.0 or later.
- Control4 controller fully installed and configured with a Control4 project.
- Powered speakers or an available connection on an amplifier or stereo.

Box Contents

Carefully unpack the contents from the box, and make sure the following items are included:

- Wireless Music Bridge
- Power Supply
- Warranty Card

If any of these items is missing or damaged, please contact Control4 immediately.

Specifications

Dimensions (W x D x H)	6.29" (160 mm) x 4.72" (120 mm) x 1.57" (40 mm)
Weight	1.05 lbs. (.47 kg)
Shipping Weight	1.5 lbs. (.69 kg)
Network	10/100 BaseT Ethernet RJ-45 (preferred) or WiFi (802.11 b/g)
Power Supply	DC - 5V @ 1.0A
Connectivity	10/100 BaseT Ethernet RJ-45 (preferred) WiFi (802.11b/g) Bluetooth v1.2 A2DP
Outputs	Stereo Analog Digital SPDIF

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Front View



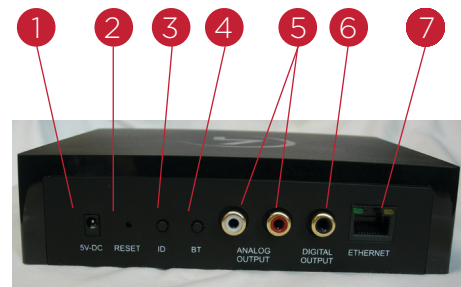
The following LED indicators appear, depending on whether the device is powered on and which type of device is connected to the Wireless Music Bridge.

- 1 **Bluetooth**—Displays the status of a Bluetooth connection.
BLUE solid—Bluetooth is connected.
- 2 **DLNA (Digital Living Network Alliance)**— Displays the status of a DLNA connection.
BLUE solid—DLNA is connected.
- 3 **AirPlay**—Displays the status of an AirPlay connection.
BLUE flashing—The device is booting.
BLUE solid—AirPlay is Ready/Connected.
- 4 **Power LED**—Indicates that power is present. The Wireless Music Bridge turns on immediately after power is applied to it.
BLUE solid—The power is on.



 **NOTE:** DLNA and AirPlay LEDs flash every second during a firmware update.


Back View



- 1 **5V DC (power jack)**—Only connect the provided 5V power supply.
- 2 **Reset (button)**—Press one time to reset the Wireless Music Bridge but maintain its network settings.
- 3 **ID (button)**—Press one time to identify the Wireless Music Bridge in your Control4 system.
- 4 **BT (button)**—Manually disconnects Bluetooth and places the Wireless Music Bridge in *pairing* mode.
- 5 **Analog Output (2 jacks)**—Stereo analog output jacks for speakers and amplifiers.
- 6 **Digital Output (1 jack)**—Coaxial digital output jack for speakers and amplifiers.
- 7 **Ethernet (port)**—RJ-45 Ethernet jack for a 10/100 BaseT Ethernet connection.

Network Options

Connect the Wireless Music Bridge using one of these network types:

 **NOTE:** If you are using Ethernet, connect the Ethernet cable *before* you power on the Wireless Music Bridge. The device will automatically go to WiFi mode if the power is plugged in before the Ethernet cable.

- **Standard Ethernet**—For best results, this is the preferred option. Connect the Wireless Music Bridge to your network using a standard Ethernet cable.
- **WiFi**—The Wireless Music Bridge is able to connect to your local wireless network and supports WEP, WPA, and WPA2 wireless networks. If you have an available local wireless network, no additional wiring is needed except for power.



IMPORTANT! Control4 recommends that you use an Ethernet connection rather than WiFi for the best communication with the Control4 system.

Pre-Installation Considerations

Before you decide where and how to install this device, review the information below.

Location

The Wireless Music Bridge is designed to work with AirPlay, DLNA and Bluetooth-enabled products. AirPlay and DLNA leverage the wired/wireless network in the home to bridge the smartphone/tablets music into the Control4 system. If these modes are used, the Wireless Music Bridge can be mounted in a rack near the network switch and amplifier. If the Wireless Music Bridge is used for Bluetooth, then the Wireless Music Bridge must be installed in the room where the Wireless Music Bridge will be used.

The Bluetooth radio in the Wireless Music Bridge is a Class 2 radio, which provides up to 10 meters line-of-sight. If obstructions, such as walls, electronics, wiring, or other wireless communication devices are near the Wireless Music Bridge, radio performance is degraded. For best results, make sure the Wireless Music Bridge is as close to the user as possible. The installer has the option to disable the Bluetooth radio in the driver Properties tab if Bluetooth will not be used.

Network Connectivity

Although the Wireless Music Bridge can connect to the Control4 System via 802.11b/g, it is strongly encouraged to use the wired Ethernet connection for communicating with the Wireless Music Bridge. Bluetooth use and location of the Wireless Music Bridge must be considered when installing this device.

If Bluetooth functionality is used by your customer, location must be decided early enough such that CAT5/6 cable can be run for Ethernet connectivity. Bluetooth and WiFi operate on the same 2.4GHz

spectrum and can interfere with each other, therefore, it is recommended to install the system with a wired connection.

Installation

To connect the Wireless Music Bridge:

- 1 Place the Wireless Music Bridge on a table near a power outlet, an Ethernet connection, and an amplifier or speakers. Plug the Ethernet connector into the Ethernet jack on the back of the Wireless Music Bridge.



NOTE: If you are using Ethernet, connect the Ethernet cable *before* you power on the Wireless Music Bridge.

- 2 Decide whether you want to set up the Wireless Music Bridge for an analog or digital signal.
 - Digital
 - a Connect an RCA cable (digital coaxial cable, not provided) to the Digital Output port on the Wireless Music Bridge.
 - b Connect the other end of the RCA cable to locally-powered speakers or to the RCA Digital Audio input on an amplifier.
 - Analog
 - a Connect an RCA cable (stereo analog audio cable, not provided) to the Analog Output jacks on the Wireless Music Bridge.
 - b Connect the other end of the RCA cable to the Audio Input jacks (RCA Stereo input) on an amplifier or stereo speakers.
- 3 Connect the power adapter to the power jack on the back of the Wireless Music Bridge.
- 4 Connect the power plug to an available power outlet.



NOTE: Use only the Control4 5V DC power adapter provided.

WiFi Setup

To use WiFi:

- 1 Follow the instructions in "Installation."



IMPORTANT! An Ethernet connection to the Wireless Music Bridge is required *before* setting this product to WiFi.

- 2 Open **Composer Pro** and click **Tools > System Manager** to reconfigure the bridge for WiFi.
- 3 In the **Devices** pane, select the **network address** for the Wireless Music Bridge, and then click **Configure**. The default browser opens to the Wireless Music Bridge home page.



NOTE: The Wireless Music Bridge can also be accessed by entering the device IP address in a browser.

- 4 Under the **Wireless LAN Settings**, select the **Service Set Identification (SSID)** to which you want to connect the Wireless Music Bridge.
- 5 If the SSID is secure, enter the appropriate **password**.
- 6 Click **Apply** at the bottom of the page.
- 7 Disconnect the Ethernet cable.
- 8 Reset or power cycle the Wireless Music Bridge.



NOTE: To return the Wireless Music Bridge to wired mode, simply plug an Ethernet cable into the Wireless Music Bridge and power cycle the device.

Configure the Wireless Music Bridge

Naming the Wireless Music Bridge

The Wireless Music Bridge can be given a unique name, called the device-friendly name. This name is used by AirPlay, DLNA and Bluetooth to help the user see the Wireless Music Bridge on their smartphone/tablet. Each Wireless Music Bridge can be given a unique device-friendly name to help associate it with a given room or individual. The installer should determine the appropriate name by discussing it with their customer. Assign the device-friendly name in the driver **Properties** tab in **Composer Pro** under **Device Name**.

The Wireless Music Bridge device-friendly name is unique and is not directly associated to the driver name. The device-friendly name is used by the AirPlay, DLNA and Bluetooth client, whereas the driver name is used by the Control4 system. The installer should consider naming the driver and the device-friendly name in a similar manner so the user is not confused when looking at their touch screens and on-screen displays.

For Bluetooth, the device-friendly name is appended with a -BT. This allows devices, such as iPhone, to uniquely distinguish between AirPlay and Bluetooth connectivity. If Bluetooth is not used, the installer should disable the Bluetooth radio in the **Properties** tab of **Composer Pro**.

New Features

The Wireless Music Bridge has two new features that enable the Wireless Music Bridge to Auto-start and turn-off a room automatically.

- The **Automatic Room(s) Selection** property in **Composer Pro** lets the installer select which room(s) will start when a smartphone/tablet connects and starts streaming music to the Control4 System. The **Auto-Start** feature will only start a room if a media source is NOT already selected. If a media source is selected in the desired room, the Wireless Music Bridge will NOT overtake the source.
- The **Automatic Room(s)-off** will automatically turn off the selected room(s) when the smartphone/tablet stops streaming music to the Wireless Music Bridge.

Both properties will cycle through the selected room(s) and make sure a different media source is not playing. After that, it will then start or turn off the room(s) as appropriate.

Simple Device Discovery Protocol (SDDP)

- 1 This device uses SDDP (Simple Device Discovery Protocol). After you connect the device and power it on, start **Composer Pro** and add the Wireless Music Bridge driver to a room in the project.
- 2 Make the necessary connections in the **Connections** view.

For information about SDDP, configuring the driver, or making connections, see the *Composer Pro User Guide* on the dealer portal for details. Also see *Using the Wireless Music Bridge* to learn how to use the device.



NOTE: As with all WiFi products, Bluetooth performance and range varies based on environmental conditions. The Wireless Music Bridge uses a Class 2 Bluetooth transceiver which provides up to 10m of range. Microwaves, other wireless signals such as 802.11 and ZigBee, and building structures can adversely affect signal strength and distance by which a wireless signal can be received. Care should be taken when installing the Wireless Music Bridge to make sure location is taken into consideration for optimal performance. The installer should work with the customer to find a suitable location that best fits the customer's needs.

Troubleshooting

Resets

- **Soft reset**—Press and release the **Reset** button one time.
- **Factory Mode**—Press and hold the **Reset** button for more than five (5) seconds to set the device name, network configuration, and WiFi settings back to their default settings in factory mode.

Factory Restore

There is no factory restore setting for this product. See “Factory Mode” above.

Regulatory/Safety Information

To review regulatory information for your particular Control4 products, see the information located on the Control4 website at: <http://www.control4.com/regulatory/>.

Warranty

Limited 2-year Warranty. Go to <http://www.control4.com/warranty> for details.

Apple® Support

*The Wireless Music Bridge is made for iPod touch® 2nd generation, 3rd generation, 4th generation, and 5th generation; iPhone® 3GS, iPhone 4, iPhone 4s/iPhone 5; iPad®, iPad 2, iPad 3rd generation, iPad 4th generation; and iPad mini®.

**“Made for iPod,” “Made for iPhone,” and “Made for iPad” mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.*