

## Product Installation Overview

The A-BUS Bluetooth LIM provides a local wireless input connection for the purpose of streaming audio from sources such as smart phones, tablets and computers, etc. with Bluetooth capability, to individual A-BUS equipped rooms. When the Bluetooth LIM is paired, it will automatically switch the music source from the main system source to the local Bluetooth source. This local connection

will remain until pairing is disconnected or the Bluetooth device is out of range. If pairing remains selected on the Bluetooth device, when it comes back into range, the connection will automatically be reengaged.

## Operation

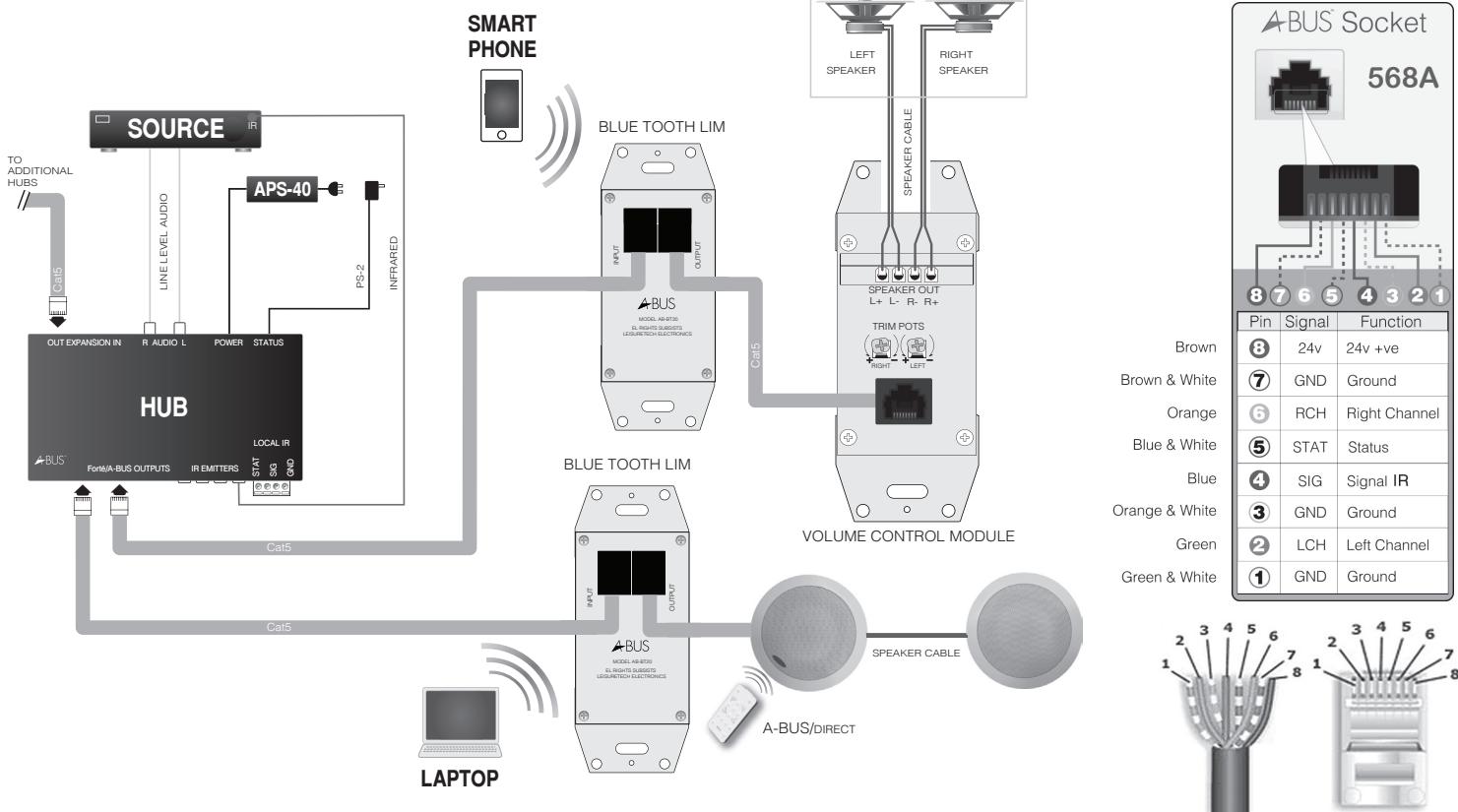
To pair to the AB-BT20, consult instructions on pairing supplied with your Bluetooth device. The Bluetooth LIM identification code will have the prefix AB in front of the individual code number. When pairing occurs, a blue LED will light on the front plate. For systems with

multiple Bluetooth LIM's, it is recommended the codes be changed to easily, identify each room before completing installation. (See below.)

## Installing Your Bluetooth LIM

The Bluetooth LIM is connected to the Cat5 cable line between the hub and the rooms A-BUS Keypad or A-BUS/DIRECT speaker using RJ-45 connectors (TIA568A). It also can be wired in series with other

LIM's along the Cat5 cable. The LIM closest to the rooms A-BUS amplified module, will be the master.



## Bluetooth as a Main Source

The Bluetooth LIM can be used as an input device in small installations, such as hotel rooms, where transmission range is not a problem. The Bluetooth LIM is connected from its output socket to any A-BUS hub with an A-BUS/READY input or Expansion Input. It can

also be inserted in a main source CAT5 cable between input module and hub, overriding the main source when paired.

## Operating Range

Bluetooth devices are intended to provide wireless communication between enabled devices within a room. The AB-BT20 has been designed to provide reliable operating range in difficult situations. In good situations, its range can be up to 15 meters (50'); however, this distance can be reduced significantly by a number of local factors

such as transmission interference from other communication devices, electrical wiring and room construction materials, such as brick walls and concrete floors, etc. When the Bluetooth LIM is operating near maximum range, the signal may intermittently drop in and out, as signal strength varies.

## Bluetooth Source Volume Level Compatibility

The audio output level from Bluetooth enabled devices, can vary from brand to brand. The Bluetooth LIM has been adjusted to be equal to the output of most Bluetooth devices, in some cases the level may be

higher. Most devices have their own adjustable volume level and it is recommended that this is used to adjusted the output level to match the main audio source's volume level.

## Room Identification

Pairing each AB-BT20 requires the identification of an individual code number beginning with the prefix AB (ABxxx). This code number can be replaced with individual room name identification such as Bedroom 1, Study, Patio, etc. prior to installation.

To download the renaming software visit [www.a-bus.com/bt](http://www.a-bus.com/bt). Once downloaded and installed, connect the AB-BT20 via the mini USB socket located at the side of the unit to your PC and start the program, follow the on screen prompts to rename the device.

## Troubleshooting Check List:

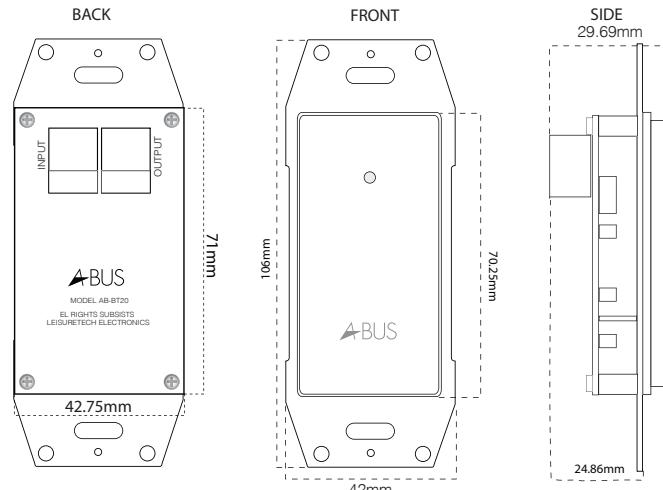
Establish an appropriate listening level with the main source before pairing.

- If no sound is heard, do not adjust output level, as damage may occur to your speakers.
- Check the music source is active before pairing.

- The blue LED indicates when devices are paired.
- Check source device is connected to WiFi.
- Change music source or app.
- Make sure device is in play mode.

## Specifications

Bluetooth Input:	A-BUS (RJ-45 Socket TIA568A) Ver.4+ EDR, A2DP, AVRCP, aptX, SBC
Output:	A-BUS (RJ-45 Socket TIA568A)
Operating range:	>15 Meters (subject to local conditions)
Connection	Not paired : Connected to main source When paired : Bluetooth streaming
Indicator	When paired : Blue LED
Re-Naming:	via PC (mini-USB)
Approvals:	FCC, C-Tick, CE
Mounting:	Single gang (US)
Size:	107 H x 43 W x 25 D (overall 30 D) mm



## Warranty

Forte A-BUS offers a 12-month warranty with proof of purchase. Please contact your place of purchase for more details or visit [www.forte-electronics.com](http://www.forte-electronics.com)

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Caution:** Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

This device and its antenna must not be located or operating in conjunction with any other antenna or transmitter.



A-BUS is a registered trademark of LeisureTech Electronics. The A-BUS technology is covered by the following patents - United States US 7,181,023, 7,668,318, 6,389,139; Australia AU 739808; New Zealand NZ 502982; Mexico MX 241196; Canada CA 2301062.

All features and specifications are subject to change without notice [www.leisuretech.com.au](http://www.leisuretech.com.au)