# BMP40
## User Manual

**AUDAC**

# Index

**AUDAC**

# Introduction
## SourceCon™ Bluetooth receiver module

The BMP40 is a professional Bluetooth receiver module featuring SourceCon™ modular technology. This unique technology guarantees true plug & play implementation to any compatible device. When inserted to a supporting slot, the module is instantly installed, discovered and ready for operation without requiring any additional internal wiring or complex configuration.

The BMP40 receiver offers wireless connection possibilities for audio playback from any Bluetooth compatible portable device including laptops, smartphones, tablets or any other. A long range transmission distance (up to 30 meters) is possible depending on the installed environment. Device discovery and pairing protection with a storage up to 8 authorized devices shall prevent playback from unauthorized users in public area's.

All media information such as track and artist information can be retrieved from the BMP40 (if supported by the connected device), while playback control is possible from the connected device or remote control.

The antenna input is implemented by an SMA−type (50 $\Omega$) connector on its panel, allowing connection of the included (2 dBi) antenna while extension is possible in situations where its installed in a closed / shielded cabinet. The balanced stereo line output is connected through two 3−pin terminal block connections.

# Precautions

AUDAC

| | **CAUTION – SERVICING** |
|---|---|
| | This product contains no user serviceable parts. Refer all servicing to qualified service personnel. Do not perform any servicing (unless you are qualified to do so.) |

| | **EC DECLARATION OF CONFORMITY** |
|---|---|
| C E | This product conforms to all the essential requirements and further relevant specifications described in following directives: 2014/30/EU (EMC) and 2014/35/EU (LVD) |

| | **WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)** |
|---|---|
| | The WEEE marking indicates that this product should not be disposed with regular household waste at the end of its product life. This regulation is created to protect both the environment and human health. |
| | This product is developed and manufactured with high quality materials and components which can be recycled and/or reused. Please dispose of this product at your local collection point or recycling centre for electrical and electronic waste. Do this to make sure that the product is recycled in an environmental friendly way, and help to protect the environment in which we all live. |

---

**CAUTION**

The symbols shown are internationally recognized symbols that warn about potentional hazards of electrical products. The lightning flash with arrowpoint in an equilateral triangle means that the unit contains dangerous voltages. The exclamation point in an equilateral triangle indicates that it is necessary for the user to refer to the users manual.



These symbols warn that there are no user serviceable parts inside the unit. Do not open the unit. Do not attempt to service the unit yourself. Refer all servicing to qualified personnel. Opening the chassis for any reason will void the manufacturer's warranty. Do not get the unit wet. If liquid is spilled on the unit, shut it off immediately and take it to a dealer for service. Disconnect the unit during storms to prevent damage.

# Chapter 1
## Connections and connectors

**CONNECTION STANDARDS**

The in– and output connections for AUDAC audio equipment are performed corresponding to international wiring standards for professional audio equipment.

### 3–Pin terminal block:
For balanced in & output connections
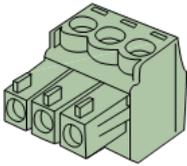
**Left:** Signal – (XLR Pin 3)
**Center:** Signal + (XLR Pin 2)
**Right:** Ground (XLR Pin 1)

For balanced line output connections:
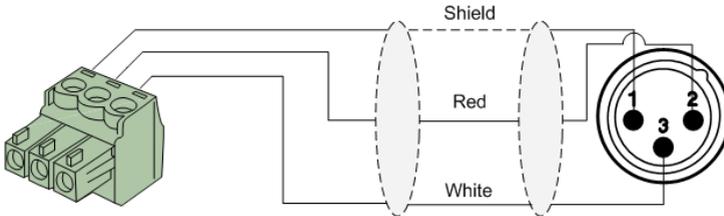
For unbalanced line output connections:

**AUDAC**
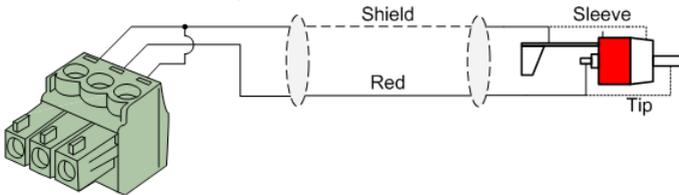
# Chapter 2
## Overview BMP40



The BMP40 is a SourceCon™ compatible module featuring an (internal) board–edge connector which carries all signals for getting it connected to any supporting main unit.

All external in & output connections shall be made using the available connectors on the panel.

**1) Balanced stereo line output:**
The balanced stereo line output is implemented using two 3–pin terminal block connectors. The audio output available on this connector allows it to be fed to any amplifier or pre–amplifier.

**2) SMA–type antenna connection:**
The antenna (input) connection is implemented using an SMA–type (male) connector whereto the supplied antenna should get connected. Depending of the installation conditions (e.g. when installed in a closed / shielded cabinet), it can be extended using optional available accessories for optimal reception conditions.

# Chapter 3
## Using the BMP40

Since the BMP40 is a SourceCon™ module, it can be combined with a variation of supporting main units. The operation and configuration interface might be different of the unit where installed, however the offered functionality is identical. Some devices will support control and configuration through a front panel graphical control interface on a display, while others are also supporting web–control.

This manual describes the control configuration possibilities using front panel control. For applications where more control possibilities are offered, check the instruction manual of the used main device for more instructions.

## Module screen

**Connecting:**
The main module screen of the BMP40 interface indicates the current connection status of the receiver. To avoid audio playback by unauthorized users in public area's, both transmitter and receiver needs to get paired when connecting for the first time.
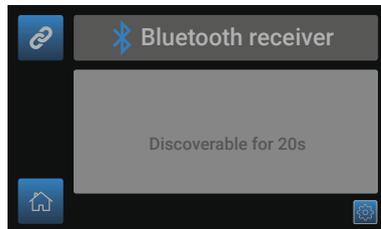


When transmitter and receiver haven't been paired before, the receiver won't be discoverable from the transmitting device. For making it discoverable, press the 🔗 button. Subsequently, the receiver is discoverable and allows connection for about 20 seconds from any transmitting device.

Once connected, the main module screen displays the name for the connected device and it will become undiscoverable for other devices.
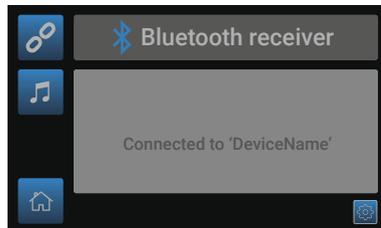
Once both transmitter and receiver have been paired, the receiver will remain discoverable for that particular transmitter, even when the 🔗 connection button hasn't been pressed. The BMP40 memory stores up to 8 authorized device ID's.



**AUDAC**

**Player:**

The 🎵 (player) button gets you to the player mode screen where browsing between audio files is possible and additional track information is indicated. (if supported by the connected transmitter)

**Home:**

The ⌂ (home) button gets you back to the main screen of the device where the BMP40 is installed to.

**Settings:**

The ⚙ (settings) button is selected through pressing the rotary selection dial. This button gets you to the settings menu of the BMP40 where all configurations can be made.

# Player mode

In this screen, all available media information about the currently playing files is shown including track, artist or any other information, while offering the possibility to browse between tracks and play or pause.
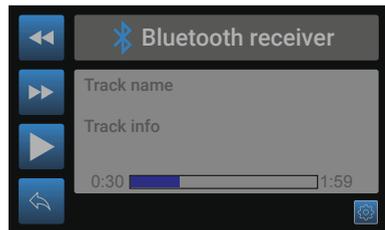
Note that the controls and available information in this screen is depending of the functionality of the connected transmitting unit.



**Track selection:**

The playing track can be selected by pressing the ◄◄ (previous track) and ►► (next track) buttons. When selected, the first next supported track will be selected and start playing.

**Play / pause:**

Toggling between play and pause is done by pressing the play/pause button with ► (play) or ‖ (pause) symbols. Depending of the current mode, the displayed symbol on the icon will toggle.

**Return:**

The ↩ (return) button gets you back to the main module screen of the BMP40.

# Settings screen

The settings menu for BMP40 can be loaded by pressing the rotary selection dial.

**Output gain:**
The gain can be adjusted within a range of +8 dB and −82 dB, allowing optimalization of the output level according to the input sensitivity of the connected amplifier or pre−amplifier. For adjusting the output gain, rotate the function dial until 'Gain' is highlighted and press it for proceeding to the gain settings. The level can be adjusted by rotating clockwise (tuning up) or counter−clockwise (tuning down). Press the rotary dial for confirming the currently set output level.
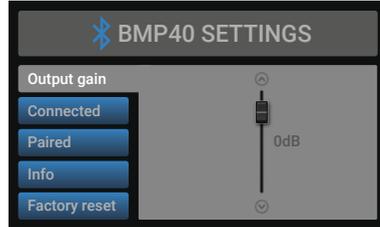
**Connected:**
Information about the connected transmitting device is shown when highlighted 'Connected'. This menu includes the device name and mac address. Press the rotary selection dial twice for disconnecting the currently connected device.

**Paired:**
8 device ID's of recenty paired transmitters are stored as authorized devices and shown in this list. These authorized devices are allowed for direct pairing with the BMP40 without making it discoverable. (without pressing the 🔗 button in the main module screen)

Devices can be removed from this list by pressing the rotary dial when highlighted 'Pairing', allowing browsing through the device list. Select the device and press the rotary dial again to remove it from the pairing list.

**Info:**
Gives an overview of the BMP40 mac address and running software versions.

**Factory reset:**
Factory reset will recall all settings to factory defaults and all previously made settings and configurations will be lost. After selecting factory reset, a confirmation will be asked whether all settings definitely need to be reset to factory defaults. When confirmed, all

**AUDAC**

settings will be lost.

**Back:**
Returning to the player mode screen is done by selecting 'Back'.

# Chapter 4
## Installing the BMP40

**CAUTION**

⚠️ Before installing the BMP40 to any SourceCon™ compatible device, make sure the power is switched off. Malfunctions or electrical shocks may occur otherwise.

**Step 1:**
Make sure that the slot whereto the module should be installed is open and ready for installation. Depending of the main unit, some module slots will be covered by blind panels when delivered. The corresponding blind panels should be removed by releasing the screws on both ends.

**Step 2:**
Before removing the modules from their protective bag, we recommend touching a grounded metal chassis (or any other grounded point) to prevent electrostatic discharges affecting the sensitive electronic components. It is recommended to always hold the module card by the metal connection panel and avoid touching of the components on the circuit board directly.

**Step 3:**
Align both edges of the module with the guide rails inside the slot and carefully insert the module into the slot. It should slide into the slot without any considerable resistance when well positioned into the guide rail.



**AUDAC**
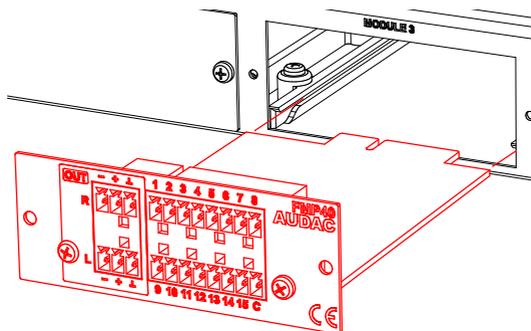
**Step 4:**

Some resistance might occur when the module's board edge connector reaches the connection counterpart on the main board. Gently push the module all the way into the slot to ensure that the contacts are correctly inserted. The module is well inserted when its connection panel touches the metal chassis of the main device where inserted to.
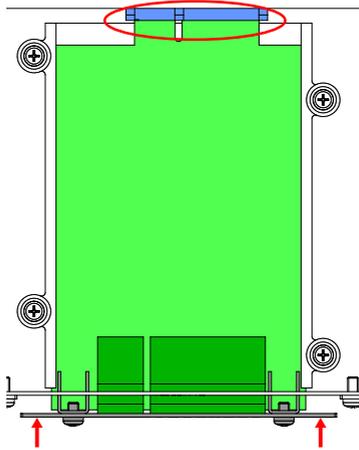


**Step 5:**

Fasten the module into the slot using the included screws. Be aware that damage or malfunctions may occur if the module is not correctly fastened.
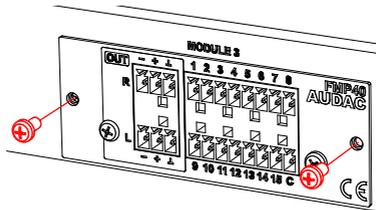


**Step 6:**

Once the module correctly installed, the system can be powered–on and the module functionality will be automatically discovered.

# Chapter 5
## Technical specifications

Connection                              SourceCon™ interface card slot
Input                                   SMA–type male antenna connection (50 Ω)
Output                                  Balanced stereo line output
                                        (2 x 3–pin Euro Terminal Block ~ 3.81 mm)

Output level                            +8 dB ~ −82 dB
                                        (Software configurable)

Bluetooth receiver                      Bluetooth spec V4.1
                                        Class 2 output power

Power consumption                       0.5 Watt

Dimensions (W x H x D)                   87 x 34.5 x 114 mm
Weight                                  0.075 Kg
Packaging                               Carton box
Shipping weight & Volume                1.08 Kg – 0.028 Cbm

Accessoried included                    2.4 Ghz antenna (2 dBi)

Compatible devices                      XMP44 Modular audio system
Optional Accessories        BAE100      Antenna extender kit

AUDAC