PowerLink Speaker Adaptor

OneRemote Type 30017744

User Manual





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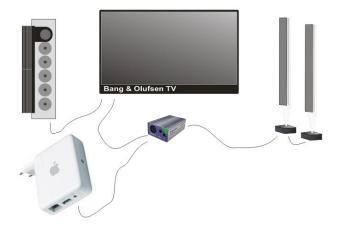
POWERLINK SPEAKER ADAPTOR

The OneRemote Powerlink Speaker Adaptor enables two different sound sources to share ONE set of Bang & Olufsen PowerLink speakers.

Input Sources:

- Any Bang & Olufsen radio or TV sound source.
- Any level controlled analog audio source like a TV, a Sonos system, an Apple Airport, a Bluetooth receiver, a DAB receiver or similar.





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PLUG & PLAY OPERATION

No programming is needed to make the Speaker Adaptor work. As soon as fully connected sound from one connected device is lead to the speakers, in accordance with below truth table.

When the Speaker Adaptor is powered up the LED turns green, and when sound is flowing it turns red, now and then blinking with sound pulsation.

The PowerLink source always has priority over the AUX source. See the truth table.

When detecting sound from the AUX input, the Speaker Adaptor turns on power to the speakers and loops the AUX source to the speaker.

The speakers remain powered up, until no sound has been detected from the AUX source for about one minute.

PowerLink Source	AUX	PowerLink Out
ON	OFF	PowerLink Source
ON	ON	PowerLink Source
OFF	ON	AUX *1
OFF	OFF	Speakers off *1

^{*1} The speakers remain powered up for a minute after sound has disappeared from the AUX source.



FEATURES

GALVANIC ISOLATION

Designed with galvanic isolation the input signals are kept completely separate from each other. This prevents problems with floating grounds and the two separate ground potentials for data and audio.

- Signal switching is made with a mechanical relay.
- The data ground signal is switched with a mechanical relay.
- The analog ground signal is switched with a mechanical relay.
- Digital data signal flow via a galvanic isolating optocoupler.

LOSSLESS POWERLINK AUDIO PASS

The PowerLink audio signals pass without any modification; the output of the adaptor is the same as the input.

DATALINK PASS

When the PowerLink source is active, any DataLink signals herein are passed directly to the output.

INSTALLATION

The OneRemote PowerLink Speaker Adaptor is easily installed:

- 1. Connect the speakers with PowerLink cable(s). Not included.
- 2. Connect the two sound sources with appropriate cables. Not included.
- 3. Connect the mains adaptor.

CABLE QUALITY

Be sure to use good quality PowerLink cables, preferably the double-shielded type, especially if long cables are used. DO NOT use un-shielded cables for any connection.

PowerLink Cable MKII with 4-wire connections is not recommended.

Poorly or non-screened cables pick up noise from the surroundings.

AUX SOURCE NOISE REDUCTION

The AUX input can connect to any audio source. A controlled line output from a preamplifier is one type of signal, a headphone output from a TV is another type.

Use the two NR DIP switches on the OneRemote Powerlink Adaptor to match the source and thereby reduce noise. Both the switches must be either up or down. Use the position giving the best result.



If noise disappears when pulling out the AUX jack, the noise is either being picked up from cables or the quality of the source is poor.

In rare setups a humming low pitched noise can appear due to problems with ground planes. If this occurs, an audio transformer can solve the problem.

AUX SOUND LEVEL

Use the two potentiometer adjustments to align the levels of the PowerLink and AUX sources.

This adjustment also sets the maximum volume for the AUX source.





TECHNICAL SPECIFICATIONS

Dimensions 25 x 45 x 74 mm

Included accessories Power Adaptor 12VDC @ 400mA Euro

CONNECTIONS



Sockets:

PowerLink in DIN 8-pin PowerLink AUX in 3.5 mm stereo jack OUT DIN 8-pin PowerLink

Power 12V DC 300mA

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POWERLINK SPEAKER ADAPTOR - APPLICATION EXAMPLES

Non Bang & Olufsen TV, all Beo4 controlled



When the Bang & Olufsen radio is powered up, sound from the radio is automatically routed to the speakers.

When only the TV is powered up, the TV sound is routed to the speakers.

If a Beo4 is modified with a OneRemote RMB4 converter, it can operate both the TV and the radio.

A complete Bang & Olufsen system with a PowerLink Speaker Adaptor connecting:

Airport Express, Bluetooth adapter, DAB+ tuner \dots



Add music to any Bang & Olufsen system wirelessly using Apple Airplay or Bluetooth or cable directly via the OneRemote PowerLink Speaker Adaptor:

- Wirelessly from any mobile phone with Bluetooth using a Bluetooth Music Receiver
- Wirelessly from an Apple iPhone, iPad, Mac computer etc using Airplay.
- Wirelessly or cabled from any PC.
- Cabled from an Internet Radio or DAB+ receiver.

If a Beo4 is modified with a OneRemote RMB4 converter, it can operate a OneRemote DAB+ or WiFi receiver too.