



6+ and 8+ Way Signal Boosters

27823HSR/27824HSR
User Guide



Inputs



Filtering



Auto Line
Powering



Output

Introduction

Congratulations on the purchase of your new SLx Booster. SLx is renowned for producing high quality electrical accessories and signal distribution products. SLx Boosters have a number of features that assist quality distribution of your TV and/or Radio signals around your home, including:

- More efficient Switch-Mode Power Supply - these run cooler saving energy whilst also making them safer in your home
- Improved gain flatness delivering a better balance across the performance range
- Lower noise figure for optimum picture and sound quality
- Greater signal handling capacity to cope with more channels
- 4G Filtering - provides a typical 45dB protection from 4G mobile phone signal interference
- Coaxial connectors - simple to plug in to standard aerial connections

We are sure you will enjoy using your SLx booster it's easy to install and incorporates the latest technology for energy efficient, long-term, continuous use.

If you have any queries please get in touch with our technical department at www.slxtechnology.com/support

Additional Features

Dual Inputs - With separate inputs for UHF TV and VHF (FM and or DAB) Radio and a built-in signal combiner your signal distribution system can easily be expanded to include high quality radio signals in every room.

If you have a long cable run from the aerial to the booster you can use a masthead pre-amp near the aerial which the Auto Line-Power will detect and supply 12V to power it.

The FULL gain outlet has 18dB of gain which can be used to compensate for losses in very long cable runs or allows for the signal to be split to feed up to 8 additional rooms.

All SLx aerial boosters comply with RED (The Radio Equipment Directive 2014/53/EU).



General Safety Precautions

To Prevent Overheating

The recommended clearances and other precautions given in these instructions must be observed to prevent overheating. In addition, units should not be positioned where they are likely to become covered by curtains, fabric or insulating material. The amp should not be left resting on a carpet.

Other precautions

These appliances are not waterproof, they are intended for indoor use only and must not be positioned where they could be exposed to dripping or splashing water. Objects containing liquids should not be placed on or near the booster. To prevent fire, make sure the unit and attached cabling are installed well away from naked flames and other heat sources.

Mains Plug

Your booster is supplied with a standard mains plug already fitted, if you need to change the plug use a competent professional (ELECSEA or NICEIC) to make the connection. If you need to change the fuse use a 3 Amp fuse to BS1362 carrying the ASTA or BSI approved mark and refit the plastic fuse carrier.

Before Installing Please Note

Applications

SLx Boosters incorporate a Class 3 filter to reduce 4G interference and are suitable for digital TV signals Ch21-59 (470-782MHz) however if you wish to receive TV on Ch60 you should use an SLx Booster with IR Bypass. In this case you may need a Ch60 filter if you are affected by 4G interference (currently available from at800 free of charge).

Installation

Important note: attention is drawn to the General Safety Precautions Panel above which contains advice on safe installation and operation of these products.

Location

Choose a location for the booster from which it is convenient to run cables from the aerial and to the rooms with TV's. Typical examples of suitable locations are a loft space or a cupboard. In weak signal areas it is best to keep the cable from the aerial as short as possible.

Select a cool, dry location to install the amplifier. This means a location where the ambient temperature will remain between -10°C and +40°C, and which is free from risk of dripping or splashing water.

The fixing location should allow adequate access to the equipment for wiring and maintenance. Clearance of at least 25mm should be allowed around the left hand side and top of the unit for ventilation. More clearance will be needed on the other sides to allow access for cables.

Fixing

The booster should be fixed to a wall or other suitable hard surface using the keyhole slots on the back of the housing and suitable screws and wall plugs, a template is provided on page 4. The booster should not be left supported by its own wiring, nor should it be left resting on a carpet or other insulating and/or inflammable surfaces.

Signal Connections

Input and output signal connections are made using IEC coax connectors. Good quality plugs and digital quality double screened coaxial cable should be used to ensure optimum performance from your booster.

Line Powering

The SLx6+1 and SLx8+1 has built-in full line powering which can be used to provide power to masthead amplifiers. When connected to a masthead amplifier, the SLx4 will send the required power out of the UHF socket up to the masthead amplifier (up to 25mA). Please see your masthead amplifier operating instructions for more details.

In order to provide a non-interrupted 12V power supply to the masthead amplifier, it is important to ensure that there is no equipment between the UHF socket and the masthead amplifier output socket. If equipment is connected in between, the booster will not be able to detect the masthead amplifier and so will automatically not output 12V.

Installing your Booster

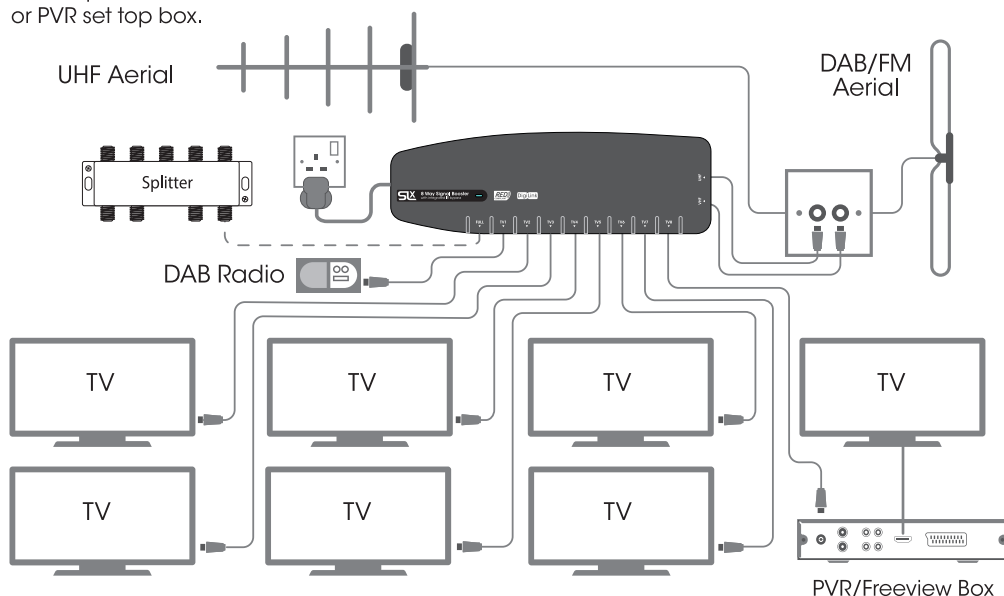
Aerial signal distribution:

1. Connect your UHF aerial downlead to the UHF socket and connect your FM/DAB aerial downlead (if applicable) to the FM socket on the amplifier.
2. Connect your TVs and DAB/FM tuners to any of your booster's TV sockets in any combination.

If your TV does not have a built-in Freeview™ receiver you will need to connect your TV to the amplifier via a Freeview™ or PVR set top box.

The FULL gain outlet has 18dB of gain which can be connected via coax cable to a splitter to feed up to 8 additional rooms or connected to another amplifier.

PLEASE NOTE: If you are not using the FULL output socket it is important that this output is terminated using the supplied terminator. Failure to do this can result in poor system performance.



Specifications

Booster	In	Out	Frequency VHF Signal UHF Signal	Suitable for	Max Gain	Full Output Port	Noise	Isolation Out/Out	Max Output	Typ. 4G Protection
27823HSR SLx6+1	2	6	87-230MHz 470-782MHz	FM/DAB/ TV Ch 21-59 Freeview	11dB	18dB	<3dB	20dB	90dBµV	>45dB
27824HSR SLx8+1	2	8	87-230MHz 470-782MHz	FM/DAB/ TV Ch 21-59 Freeview	11dB	18dB	<3dB	20dB	90dBµV	>45dB

Philex reserve the right to modify their designs or specifications, In the light of future developments, without prior notice. Performance figures quoted are typical and subject to normal manufacturing and service tolerances.

Troubleshooting

If you experience reception problems after installing your SLx booster, please see below:

No picture or sound

Is the signal reaching your TV? Check:

- Everything, including the booster is plugged in and switched on
- Coaxial connections are correctly made (no braid or foil is touching the inner core)

Picture or sound breaking up

- Use the best wideband aerial ideally fitted outdoors
- Use good quality coax cable, poorly screened cable can pick up noise
- Too much or too little signal can cause similar break-up. If the signal is too strong an attenuator can be fitted to reduce signal strength. If the signal is too weak due to long a cable run between aerial and booster, a masthead amplifier can be fitted

For specific help with digital TV reception problems, visit www.digitaluk.co.uk or www.bbc.co.uk/reception/television/freeview/reception_problems

Technical Support

If you experience problems setting up your aerial, please visit our technical website at www.slxtechnology.com/support you can send us a message or **live chat** during office hours.

Declaration of Conformity

Hereby, Philex declares that these boosters/ amplifiers for TV broadcast reception in domestic premises are in compliance with the Radio Equipment Directive 2014/53/EU. The full Declaration of Conformity is available by contacting the following internet address: www.slxtechnology.com/DoC



Standard: EN 303 354
Product Type: D Signal Distribution Amplifier
Filter Class: 3 Mitigates 4G interference

Suitable for digital TV signal distribution
Ch21-59 in the UK and EIRE.

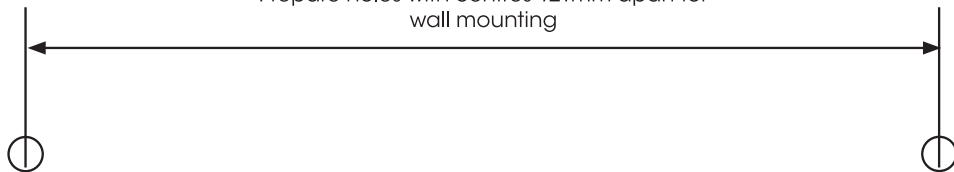


Waste electrical and electronic products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority for recycling advice.



Wall Mounting Drilling Template

SLx6+1 and SLx8+1
Prepare holes with centres 121mm apart for wall mounting



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