



# 1 & 2 Way Signal Boosters with Variable Gain

27822HSR/27828HSR  
User Guide



Filtering



Variable  
Gain

## 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.philex.com/support](http://www.philex.com/support)

### Additional Features

The adjustable gain control on these Boosters allows you to compensate for weak or strong signals and long or short cable runs to optimise the signal quality. Digital signal quality can be affected by signals that are either too weak or too strong.

All our 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 (ELECTSA 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 Ch 21-59 (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 Ch 60 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

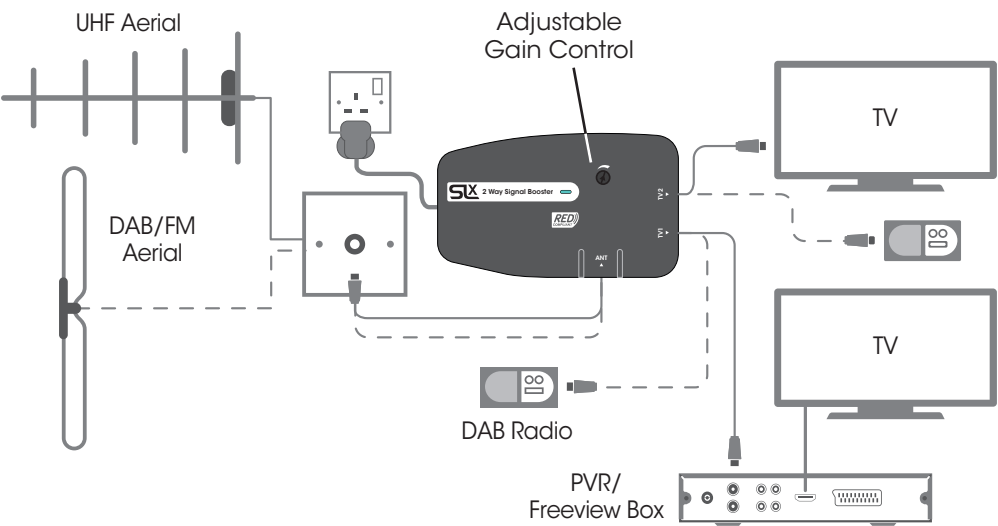
Input and output signal connections are made using IEC coax connectors. Good quality plugs and digital quality double screened coaxial cable should be used to ensure optimum performance from your booster.

# Installing your Booster

## Aerial signal distribution:

- 1. Connect your UHF aerial download (or your FM/DAB aerial download) to the ANT socket on the booster.
- 2. Connect your TVs or DAB/FM tuners to the TV socket(s).  
If your TV does not have a built-in Freeview™ receiver you will need to connect your TV to the booster via a Freeview™ set top box.

- 3. Turn on all a connected equipment and use a flat bladed screwdriver to adjust the Gain Control up and down to find the setting which gives you the best combination of picture and sound on all of your equipment.



## Specifications

Booster	In	Out	Signal Frequency	Suitable for	Max Gain	Adjust	Noise	Isolation Out/Out	Max Output	Typ. 4G Protection
27828HSR SLx 1	1	1	87-782MHz	FM/DAB/TV Ch21-59 Freeview	20dB	-15dB	<3dB	N/A	95dBµV	45dB
27822HSR SLx 2	1	2	87-782MHz	FM/DAB/TV Ch21-59 Freeview	16dB	-15dB	<3dB	12dB	93dBµV	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
- Adjust the gain control up or down, either too much or too little signal can cause similar break-up

For specific help with digital TV reception problems, visit [www.digitaluk.co.uk](http://www.digitaluk.co.uk) or [www.bbc.co.uk/reception/television/freeview/reception\\_problems](http://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](http://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](http://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

