

Amplifier Specification

Model Number	MSA263LP	MSA283LP
Number of Outputs	6	8
Gain to numbered outputs	8dB	8dB
Noise figure	3dB	3dB
Output capability from numbered outputs	76dB μ V	76dB μ V
Tetra filters:-	Rejection > 20dB @ 380-410 MHz and @ 950Mhz	
VHF	47-300 MHz	
UHF	470-862 MHz	
Output receiver line	9V at 15mA per outlet max with auto shutdown power	
Power requirements	230V AC 50Hz at <10VA Supplied and fitted Mains Plug to BS 1363	

• Digital bypass excluding Port 1

Power Supply Specification

Type-F (female)	
DC output	12V DC at 140 mA max.
Dimensions	65 (H) x 80 (W) x 45 (D) mm
Signal frequency range	44 – 862 MHz
Signal insertion loss	0.5 dB
Output voltage tolerance	\pm 5%
Power requirement	230 V AC 50 Hz at <3W

• Thermal fuse in mains transformer protects against overheating.

2 Year Guarantee

Your amplifier is guaranteed against faulty components or poor workmanship for a period of two years from the date of purchase. This guarantee does not cover accidental or malicious damage (including damage from natural causes such as lightning) and will be invalidated by installation or use other than in accordance with these instructions, repair or attempted repair other than by the manufacturer, or opening or removal of the case. This does not affect your statutory rights.



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

✓ RoHS Compliant

Labgear

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Multi-way Distribution Amplifiers

with Remote Power Supply and 'Digilink' IR Return Path

Labgear

USER GUIDE

MSA263LP
MSA283LP

For UK and Ireland

Introduction

The new easy installation design of the MSA263/283LP 6-8 way aerial amplifiers means that you no longer require the assistance of an aerial installer to fit the unit to the mains circuit in the loft.

The MSA236/283LP uses a revolutionary two piece design comprising of a power supply unit and amplifier unit, for ease of use the power supply unit is plugged into a free 13amp socket anywhere in the property, the coax cable feed from the TV f-type terminal of the power supply unit will then need to be connected to the power input 1 on the amplifier unit.

The MSA263/283LP is then fully ready for use and only requires the input/output connections to be made.

*Please note the coax cable run between the power supply unit and amplifier unit will need to be direct if wall plates are in use they will need to be of the **non-isolated** type.*

These fully screened 6 and 8 way TV and FM DAB

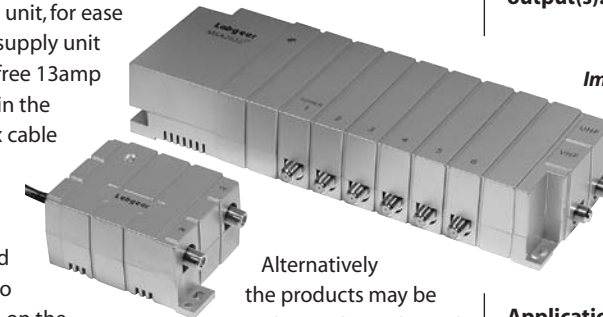
amplifiers are compatible with Labgear Digilink remote control system. This makes them ideal for use in digital satellite home installations, where the output from a digibox can be distributed to several rooms with the capability for full remote control of the box from any room(s).

attention to signal levels for satisfactory results.

All amplifier outputs are line powered at 9V DC to supply remote infra-red receivers. The line power at any output(s) can be short-circuited safely, without affecting the operation of any other output(s).

Important:

These amplifiers do not provide line-power for masthead preamplifiers.



Alternatively the products may be used as traditional 'aerial amplifiers' without making use of the infra-red capability. Separate inputs are provided for UHF TV (470-862 MHz) and for VHF/FM/DAB. The VHF/FM/DAB operating for the standard unit UK and Ireland market is 47-300 MHz.

All units are suitable for handling digital terrestrial TV (DTT) signals in addition to the analogue services. Distribution of DTT signals requires careful

Applications include the following:

- Simple multipoint distribution of radio and TV signals.
- Use in conjunction with a Sky Digibox or other unit with an IR-return enabled RF output.

Note:

when using these amplifiers with a Sky Digibox, the amplifier UHF Input must be fed from RF OUT-2 socket of the Digibox. It is not necessary to enable the 9V line power on RF OUT2.

Installation

Important note: attention is drawn to the General Safety Precautions Panel on page 4 which contains advice referring to safe installation and operation of these products.

Location

Choose a location for the amplifier from which it is convenient to run cables from the antennas and to the system outlets. Typical examples of suitable locations are a loft space or a cupboard. In weak signal areas it is helpful to keep the antenna cables as short as practicable. 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, etc.

The fixing location should allow adequate access to the equipment for wiring and maintenance.

Fixing

The amplifier should be fixed to a wall or other suitable hard surface, using suitable screws and masonry plugs (not supplied). The amplifier 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. A ventilation gap of at least 25mm should be left around the front and sides of the unit.

Power Supply

Fixed wiring and connection of the electrical supply to these products should be carried out in accordance with BS7671 (IEE Wiring Regulations). Each power supply is supplied with fitted 13A mains plug fitted with a 3A mains fuse. Fix the unit to a wall, skirting board,

mounting board or similar hard surface. A ventilation gap of at least 25mm should be left around the front and sides of the unit.

Signal Connections

Input and output signal connections are made using 'IEC' (IEC 60169-2) connectors. Good quality plugs should be used, preferably of the crimp on type. Attention is drawn to the need to maintain DC continuity throughout the system for correct operation of infra-red remote control functions. Plug inner contacts should always be soldered, unless of the crimp type or provided with a screw terminal. The use of improvised crimping methods on solder type plugs is not recommended.

General Safety Precautions

To Prevent Overheating

The recommended clearances and other precautions given in the installation section of these instructions must be observed to prevent overheating. In addition, the units should not be fixed where they are likely to become smothered by curtains or other fabrics, etc, or other thermal insulation materials in a roof space or similar building void. The unit should not be left resting on a carpet.

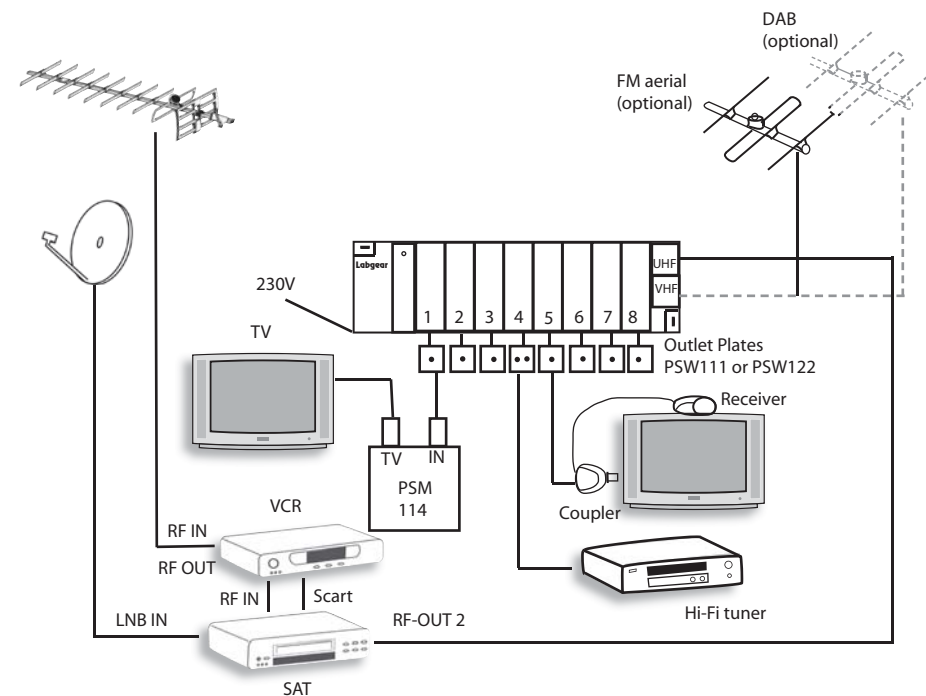
Other Precautions

These appliances are not waterproof. They are for indoor use only and must not be fixed where they could be exposed to dripping or splashing water. Objects containing liquids should not be placed on or near the appliance. To prevent risk of fire, no object with a naked flame should be placed on or near the appliances or the wiring to them.

Fitted Mains Plug

The Power Supply is supplied with a standard fixed plug already fitted. In the unlikely event that you need to change the fuse in this plug, 3Amp fuse to BS1362 carrying the ASTA or BSI approved mark must be used.

Typical wiring system diagram for MSA263LP / 283LP



Output 1 does not support Digi Eye IR signals and should be connected to the power supply. The UHF output from the power supply can connect to:

1. Your main TV, or
2. To a TV where Digi-eyes are not being used, or
3. As a stand-alone unit with no TV, just powering the amplifier.