

The Labgear Distribution Amplifier range consists of 7 standard models

MSA111 VHF/UHF single input single output, 14dB gain

MSA121 VHF/UHF single input 2 outputs, 12dB gain

MSA distribution amplifiers offer a low-cost, reliable way to boost weak signals. In addition to terrestrial signals, they can amplify and distribute TV signals from satellite, cable or digital set-top receivers.

Features

- High-gain, low-noise designs cover VHF and UHF bands
- Transient and static protection
- Suitable for analogue and digital signal distribution
- Rugged, proven design
- Easy plug-in installation, completed in seconds
- Supplied complete with 1 metre flylead

Technical Data	MSA111	MSA121	
Number of Outputs	1	2	
Gain	14dB	11dB	
Noise figure	3dB	3.5dB	
Frequency range	44-862MHz		
Connectors	IEC 60169-2		
Power Requirements	230V 50Hz <2w		Supplied with fitted mains plug to BS1363
Dimensions (H)x (W) x (D)	44 x 65 x 80		Excludes connections and fixing flanges

MSA242 Dual input - 4 outputs, 10dB, with line power facility

MSA161 Single input VHF-UHF – 6 outputs, 8 dB distribution Amplifier with line power facility.

MSA262 Dual input - 6 outputs, 8dB, with line power facility

MSA181 Single input VHF-UHF – 6 outputs, 8 dB distribution Amplifier with line power facility.

MSA282 Dual input - 8 outputs, 8dB, with line power facility

This proven range of mains powered multi-way distribution amplifiers has been designed with the small to medium sized distribution system in mind. The range comprises four models encompassing from four to eight outlets. The six- and eight-way models feature a high gain output which may be used to provide additional outlets. For example, the addition of an FCU148 8-way tap enables the MSA281 to drive an additional eight outlets.

Features

- Separate filtered inputs for VHF/FM radio (Band II) and UHF TV (Bands IV & V)
- Single input 6 and 8 way versions VHF, UHF are now available
- A version with wider VHF bandwidth (Bands I - III) is also available
- Automatic line-power for masthead preamplifier supplied at UHF input of all models
- Reliable proven designs
- Fully screened for low emission and high interference immunity
- Suitable for analogue and digital signal distribution
- Full output port on 6 and 8 way versions

Technical Data	MSA242	MSA161	MSA262	MSA181	MSA282	
Number of inputs	2	1	2	1	2	
Number of Outputs	4	6+1	6+1	8+1	8+1	'+' indicates Full port
Gain to numbered outputs	8	8	8	8	8	
Gain to FULL port	18	18	18	18	18	
Noise figure	5dB	5dB	5dB	5dB	5dB	
Output capability (4-8)	88dBµV	84dBµV (max i/p 75dBµV)				
Output capability(Full)	n/a	93dBµV				
Isolation between outputs	24dB	28dB				
Dimensions (H)x(W)x(D)	45x85x155	47x85x255				
VHF-UHF / FM DAB Frequency range	87.5-230	40-300 470-862	87.5-230	40-300 470-882	87.5-230	Single input versions have >24dB rejection at 385MHz
VHF input frequency range	44-270	n/a	44-270	n/a	44-270	Quote 'EIR' Version
UHF input frequency range	470-862	n/a	470-862	n/a	470-862	
Line power capability	12v at 50mA with auto shut down					UHF input only
Connections	IEC60169-2(female)					
Power requirements	230V AC 50Hz 7VA					Supplied with fitted mains plug to BS1363

1. This output is provided to allow additional outlet points to be fed using external taps and/or splitters. The design of such external networks is beyond the scope of this data sheet. The 'FULL' port must be terminated with a 75Ω terminator supplied. It is not necessary to terminate the numbered outputs if they remain unused.
2. Output capabilities are given for a cross-modulation level of -46dB. Use external input attenuator(s) if necessary to ensure that the stated output capability is not exceeded. For 8 analogue TV channels de-rate the figures in the table by 3dB.
3. Allow not less than 150mm clearance below and to right of unit for cable entry.

Labgear reserve the right to modify its designs and/or specification without prior notice. The performance figures quoted are typical unless stated