

The LA-40MKIII, LA-80MKII and LA-81MKII line level converters are built for studio quality conversion between balanced (+4 dBu/–20 dBu) and unbalanced (–10 dB) line levels, offering the best integration of all types of equipment. LA-40MKIII is equipped with four RCA inputs and outputs as well as four XLR inputs and outputs. LA-80 MKII offers eight unbalanced RCA inputs and eight balanced XLR outputs, and LA-81 MKII has eight balanced XLR inputs and eight unbalanced RCA outputs. Each of the three converters has a switch matrix that allows channels to be linked, utilizing the unit as a distribution amplifier for splitting signals to multiple recorders, or for multizone sound routing applications.

Switches on the bottom panel allow to select a nominal level of +4 dBu or –20 dBu for each channel and ±12 dB trim pots on the front panel make perfect level matching easy. LEDs on the front panel indicate signal presence for each channel. Ground lift switches are available on each channel or globally for eliminating ground loops.

LA-40MKIII

- ▶ 4 channels with unbalanced RCA inputs and balanced XLR outputs plus 4 channels with balanced XLR inputs and unbalanced RCA outputs
- ▶ Distribution amplifier functionality: Input signals can be routed to multiple output channels through switches (RCA to XLR and XLR to RCA)

LA-80MKII

- ▶ 8 channels with unbalanced RCA inputs and balanced XLR outputs
- ▶ Distribution amplifier functionality: Input signals can be routed to multiple output channels through switches

LA81MKII

- ▶ 8 channels with balanced XLR inputs and unbalanced RCA outputs
- ▶ Distribution amplifier functionality: Input signals can be routed to multiple output channels through switches

General features

- ▶ XLR nominal level selectable between +4 dBu and –20 dBu
- ▶ Trim pots (±12 dB) for each channel on front panel
- ▶ Signal LED for each channel
- ▶ Ground lift switches for each channel and master switch
- ▶ Internal power supply, no AC adapter needed
- ▶ 1 U rack-mountable chassis

LA-40MKIII • LA-80/81MKII

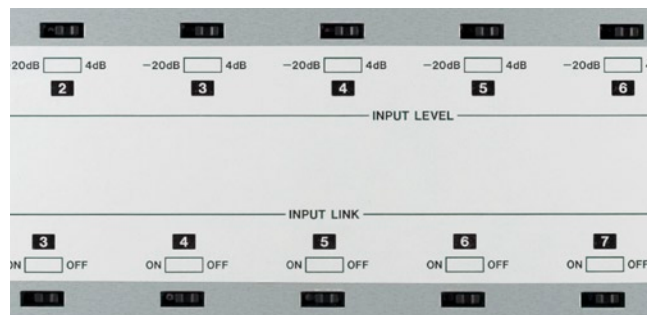
Unbalanced/Balanced Line Converters

Specifications

Inputs and outputs	
Inputs (unbalanced)	RCA jacks
Input impedance	23 kOhm (when all INPUT LINK switches are OFF) 5.7 kOhm (when all INPUT LINK switches are ON)
Nominal input level	-10 dBV, ±1 dB
Maximum input level	+4.8 dBV
Indicator detection level	-36 dBV or more (OUTPUT LEVEL switch set to +4 dB or -20 dB)
Outputs (balanced)	XLR-type connectors
Output impedance	94 Ohm
Nominal load impedance	10 kOhm
Minimum load impedance	600 Ohm
Nominal output level	+4 dBu, ±1 dB (OUTPUT LEVEL switch set to +4 dB) -20 dBu, ±1 dB (OUTPUT LEVEL switch set to -20 dB)
Maximum output level	+23 dBu
Inputs (balanced)	XLR-type connectors
Input impedance	54 kOhm (when all INPUT LINK switches are OFF) 6.7 kOhm (when all INPUT LINK switches are ON)
Nominal input level	+4 dBu, ±1 dB (INPUT LEVEL switch set to +4 dB) -20 dBu, ±1 dB (INPUT LEVEL switch set to -20 dB)
Maximum input level	+30 dBu (INPUT LEVEL switch set to +4 dB) +8 dBu (INPUT LEVEL switch set to -20 dB)
Indicator detection level	-22 dBV or more (INPUT LEVEL switch set to +4 dB) -46 dBV or more (INPUT LEVEL switch set to -20 dB)
Outputs (unbalanced)	RCA jack
Output impedance	200 Ohm
Nominal load impedance	10 kOhm
Minimum load impedance	1 kOhm
Nominal output level	-10 dBV, ±1 dB
Maximum output level	+18 dBV

Audio performance	
TRIM range	±12 dB
S/N ratio (at nominal levels, INPUT/OUTPUT switches set to +4 dB)	90 dB(A) (20 kHz LPF) 87 dB(A) (20 Hz HPF and 20 kHz LPF)
Total harmonic distortion (1 kHz, at nominal levels)	0.005 % or less
Frequency response (at nominal levels)	20 Hz – 100 kHz, ±3 dB
Crosstalk (1 kHz, nominal levels, 600 Ohm load)	-90 dB

Other specifications	
Power requirements	100–240 V AC, 50/60 Hz
Power consumption	6 W
Dimensions (W x H x D)	483 mm x 44 mm x 280 mm
Weight	3 kg



Level and Link switches on the units' bottom side



LA-40MKIII



LA-80MKII



LA-81MKII

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