

# Dixon Systems



**LM-100B LineMatcher**



## Bi-Directional Stereo Level & Impedance Matching Interface

Dixon Systems' LM100B is the ideal way to correctly interface semi-pro or consumer devices with professional equipment. The LineMatcher is a *rack mounted* bi-directional unit and is available as a 'single' or 'double' in just one rack space. The LM100B uses four separate amplifiers to convert stereo inputs and outputs from unbalanced -10 dBv levels to the +4 dBm balanced environment of broadcast. All four outputs are adjustable over a wide range so it can be used with a variety of devices including computer sound cards.

Transparent and clean! Low distortion and wide dynamic range makes LM100B the ideal device for use with DAT recorders, digital editors, computer sound cards and other digital devices.

### FEATURES:

- Great performance specifications
- Easy Installation and setup
- Rack mount standard (1 RU)
- Single or double available
- Front panel gain adjustments
- Priced right!



Easy to install and simple to operate

**Dixon  
Systems**

580 Danforth Rd.  
Toronto, ON, Canada.  
M1K 1E3

[www.dixonsystems.com](http://www.dixonsystems.com)  
E-mail: [helpdesk@dixonsystems.com](mailto:helpdesk@dixonsystems.com)  
phone: 416.261.3773 fax: 416.267.4474

## Balanced to Unbalanced Section

Each of the two input sections employ half of a 5532 in an active balanced bridging configuration. The input impedance is 40K Ohms. The gain of each of these sections has been adjusted so that an input of +4 dBm provides a -10 level at the unbalanced output. The output level can be changed via front panel potentiometers. The output impedance is relatively low and is suitable for driving virtually any unbalanced input.

## Unbalanced to Balanced Section

Each balanced output section consists of half of a 5532 used as a differential pre-amplifier and an NE5532 configured as a balanced line driver. This unit has been adjusted at the factory so that an unbalanced input of -10 will provide a +4 dBm output. Gain is adjustable via two front panel potentiometers. Output impedance is approximately 60 Ohms.

## LM-100B Specifications

### Balanced to Unbalanced Section

Maximum Input Level	+24 dB
Nominal Output Level	-10 dBu
Input Impedance	40k Ohms
Output Impedance	< 100 Ohms

### Unbalanced to Balanced Section

Maximum Input Level	-10 dB
Nominal Output Level	> +22 dBm
Input Impedance	10k Ohms
Output Impedance	60 Ohms

### Both Sections

Noise	-90 dB
Frequency Response	+0, -25 dB (20-20kHz)
Distortion	Better than .01%
Power Requirements	110V/220V AC 50 or 60 Hz

## Simplified Block Diagram

