

mesytec **MDU-16** is a 16-channel low noise differential to unipolar converter with variable gain from 1/8 to 12. It provides terminated inputs and outputs. The bandwidth is optimised for charge sensitive pre amplifiers. It is ideally suited to convert MPR-16 differential outputs after a long transmission line to Lemo unipolar signals.

## Features:

- 16 channel inputs, 110 Ohm terminated
- 34 pin input connector
- 16 Lemo outputs, 50Ohm terminated
- Input range +/-5 V
- Output range: +/-10 V, (+/-5 V terminated).
- Adjustable gain from 1/8 to 12 in steps of factor 1.5.
- Ground connector at front panel, to connect shield of shielded twisted pair, or to provide additional ground to the preamp.
- input noise (measured with 2 us shaping time of an external shaper):  
at Gain = 2 to 12, noise = 25 uVrms.  
Attenuator stages: 1 to 1/8, fixed output noise of 30 uVrms.
- input common mode suppression > 1000.
- power supply (total 3.6 W)
  - +- 6 V, +-150 mA,
  - +-12 V, +-75 mA

