

The mesytec **MDC-8** is a 8-channel differential to single converter in a 1/12 wide NIM module. Can also be used as analog inverter.

Features:

- Eight differential Lemo inputs
- Eight dual amplitude Lemo Outputs
- Output "x 1" = (in+) - (in-)
- Output "x 0.2" = 0.2 x ((in+) - (in-))

Technical Data:

Power consumption

- $\pm 12V$, $\pm 100mA$

Input (in+, in-)

- Common mode rejection: factor of 200 (46dB) @ 0..1MHz:
- Common mode input range: $\pm 10V$, pulsed
- Terminated with 50Ω

Output

- Output "x 1" = (in+) - (in-)
- Output "x 0.2" = 0.2 x ((in+) - (in-))
- Output range $\pm 9V$ @ $1k\Omega$, (50Ohm source resistance)
- Short circuit protection, 100mA

Frequency range:

- DC to 120MHz (-3dB)
- risetime: 1500V/us (3ns @ 4V (output "x 1"))

Analog inverter operation

- use "-" input, leave "+" input open.
- Output "x 1" = - (in-)
- Output "x 0.2" = 0.2 x (- (in-))

