

High Speed NIM-LVDS Converter

Applications:

- high density signal conversion from NIM to LVDS level
- 12 modules / NIM bin *
32 channels / module = 384 channels per 12 slot 5U (5HE) NIM bin
- suited for various data processing electronics with industry standard LVDS signals such as e.g. ELB-VME-VFB6 (with extension cards)

Highlights:

- suited for standard NIM bin
- -6 V, 10 mA and
+6 V, 2.2 A (max.), 1.1 A (typ.)
- 32 channels per module
- 500 MHz bandwidth^{*)}
- LVDS output via KEL 8831 connector (VHDCI connector available on request)

^{*)} value assured by design, not tested in production

Compatible Products

ELB-VME-VFB6:

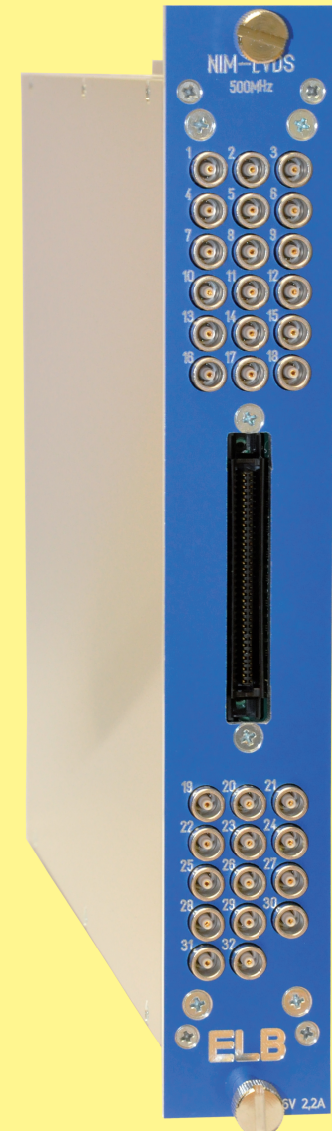
- VMEbus board with Xilinx Spartan 6 FPGA (LX45, LX75, LX100 or LX150)
- equipped with **ELB-MEZ-LIM**
32 channel LVDS input extension (3 * 32 = 96 LVDS input channels per ELB-VME-VFB6 board possible) with signaling rate of 125 MHz^{*)}
- equipped with **ELB-MEZ-NIO**
8 channel NIM I/O extension (3 * 8 = 24 NIM output channels per ELB-VME-VFB6 board possible) with signaling rate of 100 MHz^{*)}

ELB-VME-L2N-01:

- 32 channel LVDS-NIM converter
- VMEbus form factor 6U (6HE)
- >200 MHz signal transmission bandwidth^{*)}
- 672 individual LVDS to NIM channels available per 6U (6HE) VME bin

ELB

32 Channel High Speed NIM-LVDS Converter ELB-NIM-N2L-01



Contact



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Module Details (ELB-NIM-N2L-01)

Conversion:

- direct conversion (no pulse shaping)
- ~500 MHz bandwidth^{*)}
- ~2 ns propagation delay^{*)}

Power Supply:

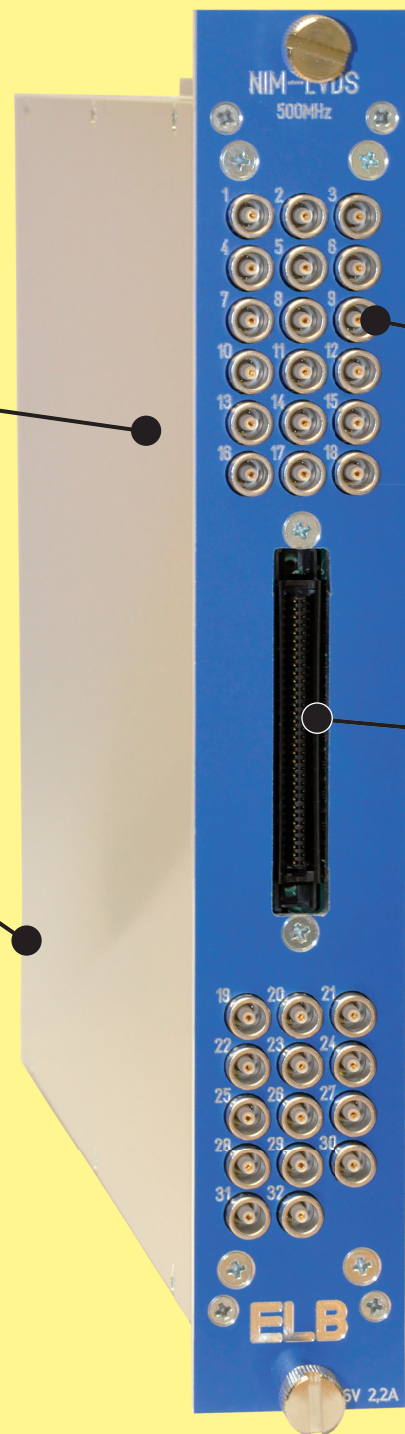
- standard NIM bin
- -6 V, 10 mA and
+6 V, 2.2 A (max.), 1.1 A (typ.)

Input:

- 32 channels
- Lemo EPC.00.250.NTN connectors
- 50 Ω termination

Output:

- LVDS
- rise time ~600 ps^{*)}
- KEL 8831 series connector
(VHDCI connector available on request)



^{*)} value assured by design, not tested in production