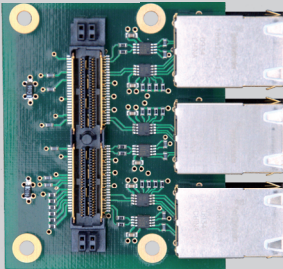


- Can be used to synchronize data acquisition processes in different VME bins
- Standard ethernet network cables can be used

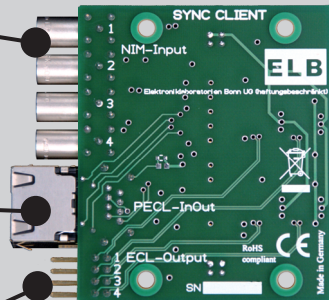
- Master module
- 3 RJ45 ports
- Each with:
 - 2x LVPECL input
 - 2x LVPECL output
 - General purpose LEDs



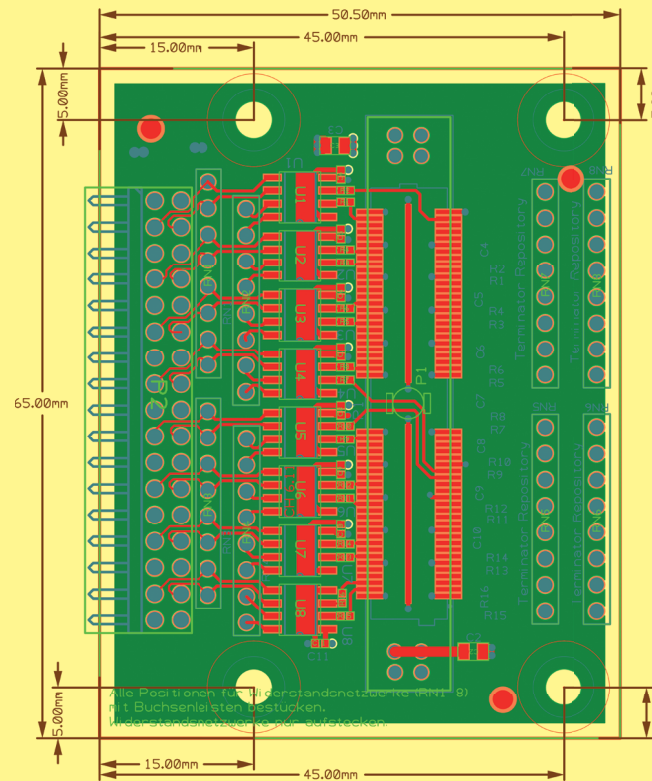
4 NIM inputs

- 1 RJ45 Port with:
 - 2x LVPECL input
 - 2x LVPECL output
 - General purpose LEDs

4 NECL outputs



- *We do not have what you need?*
- *Contact us for a custom design.*



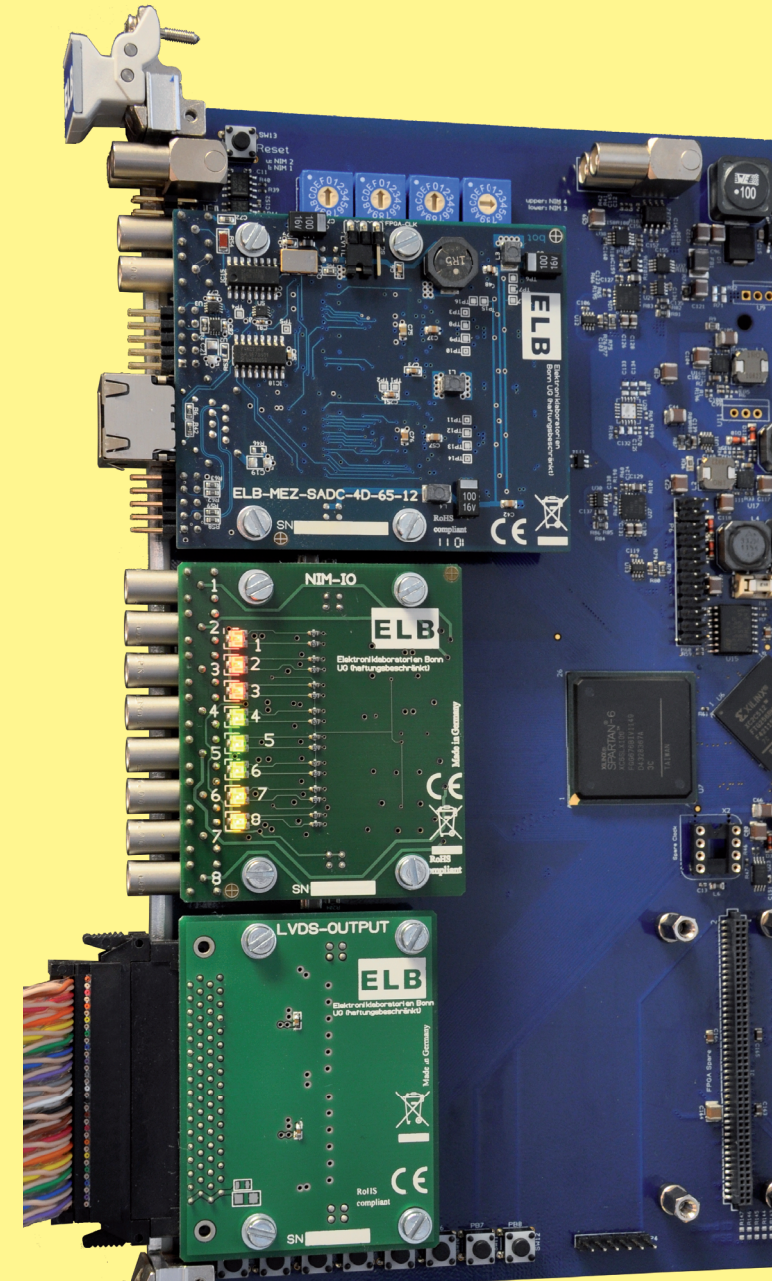
ELB Elektroniklaboratorien
Bonn
UG (haftungsbeschränkt)

ELB-Elektroniklaboratorien Bonn
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 Nussallee 14-16
 53115 Bonn, Germany
 Tel.: +49 (0)228 304 14278 - 0
 Fax: +49 (0)228 304 14278 - 9
www.elbonn.de
info@elbonn.de

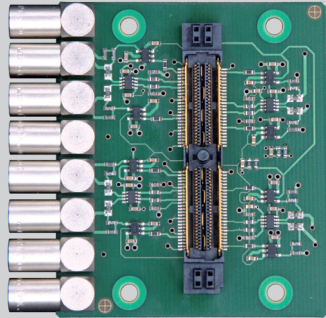
Flyer Version 1.0

ELB

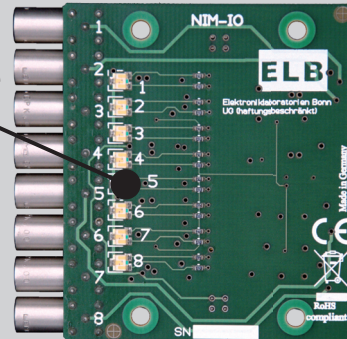
Extension Cards for ELB-VME-VFB6 Modules



NIM-I/O Extension (ELB-MEZ-NIO)



- 8 bidirectional channels
- Signaling rate >100 MHz^{*)}
- Each channel can be switched individually to input or output direction



- 8 bi-color general purpose LEDs (can be used to indicate direction of port)

Sampling ADC Extension (ELB-MEZ-ADCXX-YY-Z)

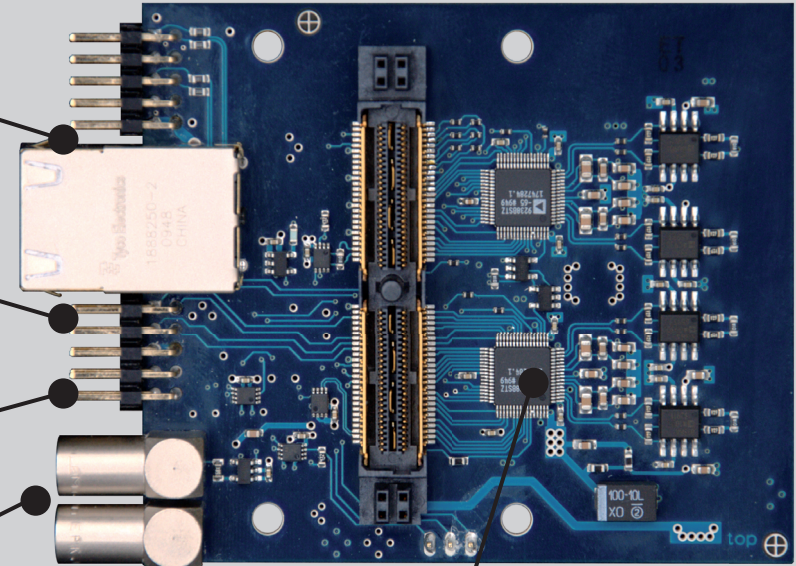
- Differential input, 100 Ω terminated, buffered
- Connector: 5 x 2 pinheader or RJ45 jacket available
- 4 general purpose I/Os (directly connected to FPGA. Can be used e.g. for I²C or SPI)

Very flexible ADC clocking:

- available clock sources are
- Crystal oscillator on extension
- External LVTTTL signal
- External LVDS signal
- Signal from FPGA

Digitizing clock outputs:

- LVTTTL
- LVDS

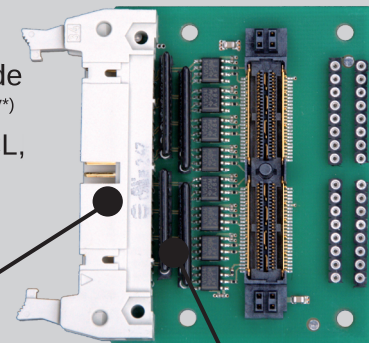


- 4 channels, 12 bit
- 20, 40, 60, and 65 MS/s versions available

Universal Differential Input Extension (ELB-MEZ-UIM)

- 16 channels
- Input common mode range: -4 V to +5 V^{*)}
- Accepts ECL, PECL, LVDS, ...
- 200 MHz^{*)}

- Connector:
- 2 x 17 pin header
 - Locking hooks

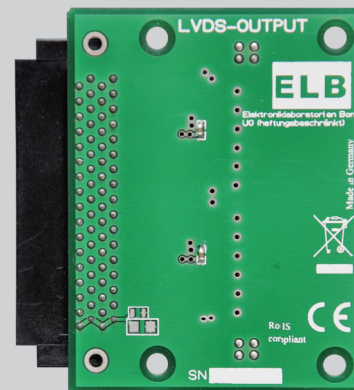


Flexible termination:

- Resistor array, termination can be jumpered
- Soldered SMD resistors version available

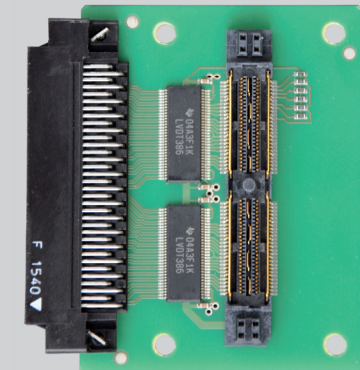
LVDS Output Extension (ELB-MEZ-LOM)

- 32 channels
- Connector: KEL 8831E-068-170L-F
- Signaling rate >200 MHz^{*)}



LVDS Input Extension (ELB-MEZ-LIM)

- 32 channels
- Connector: KEL 8831E-068-170L-F
- Signaling rate: 125 MHz^{*)}
- Terminated and unterminated version available



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