

*Image for visualization only*

## General Description

This standard backplane is member of the ERNI backplane family for use in Compact PCI computer systems. Its high-performance features make it ideally suited for telecom, data-com, and industrial applications like CNCs, robotic controls, and video image processing.

The inherent limitations of Compact PCI are broken by the use of a PCI-to-PCI-bridge.

ERNI develops and manufactures backplanes according to ISO 9001 at several productions sites around the world.

Custom and semi-custom designs based on our standard backplanes are possible in various configurations.

**Part No: 166295** including bridge module **166039**

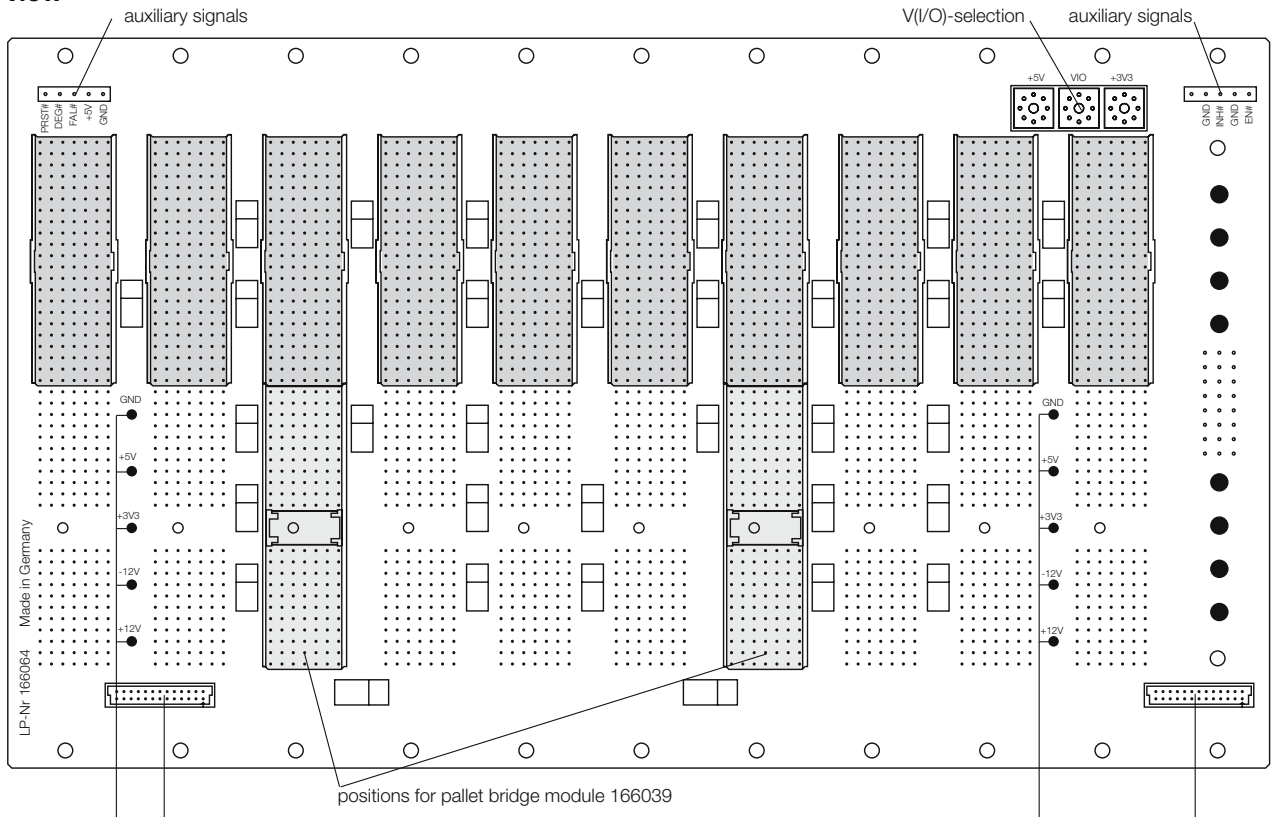
## Features

- Form factor 3 U  
Dimension (WxH): 222.52 mm x 128.7 mm
- 10 slots arranged in two cPCI bus segments, secondary segment operating through transparent pallet bridge module (part no. 166039)
- All slots in both segments with 32-bit implementation
- All slots with rear I/O capability, slots 4 to 8 with mechanical constraints due to pallet bridge module
- AB-shrouds with guides for safe mating of rear I/O transition modules
- Controlled impedance of 65 Ohm implemented in stripline-topology
- Hot-swap features according to PICMG 2.0 R3.0 and PICMG 2.1 R2.0
- Best decoupling of supply voltages
- High-quality design with best EMC-characteristics by fully shielded PCB
- Isolated or chassis-grounded mounting selected by screws
- Connectors according to IEC 61076-4-101 and PICMG 2.0 R3.0
- V(I/O) selectable by jumper element: 3.3 V or 5 V
- DIN Type M connector for modular power supply according to PICMG 2.11 R1.0
- Auxiliary signals accessible via header
- Secure separation between hazardous voltages in mains supply and SELV circuit according to IEC 950

# 3 U CompactPCI Backplane with 10 Slots



## Rear view



connections for extension to other modular backplanes, includes system management bus according to PICMG 2.9

## Front view

