3 U CompactPCI Backplane with 4 Slots

State of the art design for a wide range of applications

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, datacom, and industrial applications like CNCs, robotic controls, and video image processing.

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: 163374

Features

- Form factor 3 U
- Dimension (WxH): 80.28 mm x 128.7 mm
- 4 slots, 3 peripheral slots; system slot on right hand side
- Operates at 33 and 66 MHz clock frequency
- 32-bit implementation
- Rear Panel I/O on P2 at all Slots
- AB-shrouds with guides for safe mating of rear I/O transition modules
- Controlled impedance of 65 Ohm realized by stripline-technology
- Hot-swap features according to PICMG 2.1 R2.0
- High performed decoupling of supply voltages
- High-quality design with best EMC-characteristics by fully shielded PCB
- Flexible grounding to chassis by fixing 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
- Power supply connection via M3 threaded bolt
- Extension/cascading feature to other modular backplanes

www.ERNI.com/contact/
Rear view

- **V(I/O)-selection**
- **Power via M3 threaded bolt**
- **Connections for extension to other modular backplanes / auxiliary signals**

Front view

- **Rear Panel I/O**
- **cPCI 32-Bit Bus**
- **System Slot**
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Part No: 073734

Features

- Form factor 3 U
  Dimension (WxH): 80.3 mm x 128.7 mm
- 4 slots, 3 peripheral slots; system slot on left side
- Operates at 33 and 66 MHz clock frequency
- Full 64-bit implementation
- Controlled impedance of 65 Ohm realized by stripline-technology
- Hot-swap features according to PICMG 2.0 R3.0 and PICMG 2.1 R1.0
- Best decoupling of supply voltages
- High-quality design with best EMC-characteristics by fully shielded 10-layer PCB
- Flexible grounding to chassis by fixing screws
- Connectors according to IEC 61076-4-101 and PICMG 2.0 R3.0
- V(I/O) selectable by wiring: 3.3 V or 5 V
- Power supply connection via Faston or M4 screw
- Auxillary signals accessible at 5-pin header

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Rear view

Power for GND, +12V, -12V

Auxiliary signals

Front view

CompactPCI 64-Bit Bus

CompactPCI 32-Bit Bus

System Slot

80.3

128.7
3 U CompactPCI Backplane with 4 Slots

State of the art design for a wide range of applications

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Part No: 073736

Features

- Form factor 3 U
  Dimension (WxH): 80.3 mm x 128.7 mm
- 4 slots, 3 peripheral slots; system slot on left side
- Operates at 33 and 66 MHz clock frequency
- Full 64-bit implementation
- Controlled impedance of 65 Ohm realized by stripline-technology
- Hot-swap features according to PICMG 2.0 R3.0 and PICMG 2.1 R1.0
- Best decoupling of supply voltages
- High-quality design with best EMC-characteristics by fully shielded 10-layer PCB
- Flexible grounding to chassis by fixing screws
- Connectors according to IEC 61076-4-101 and PICMG 2.0 R3.0
- V(I/O) selectable by bus bar: 3.3 V or 5 V
- Power supply connection via M4 screw
- Auxillary signals accessible at 5-pin header
Rear view

Power for GND, +12V, -12V

Auxiliary signals

Front view

CompactPCI 64-Bit Bus

CompactPCI 32-Bit Bus

System Slot
3 U CompactPCI Backplane with 4 Slots

State of the art design for a wide range of applications

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

Features

- Form factor 3 U
  - Dimension (WxH): 80.3 mm x 128.7 mm
- 4 slots, 3 peripheral slots; system slot on right side
- Operates at 33 and 66 MHz clock frequency
- Full 64-bit implementation
- Controlled impedance of 65 Ohm realized by stripline-technology
- Best decoupling of supply voltages
- High-quality design with best EMC-characteristics by fully shielded 10-layer PCB
- Flexible grounding to chassis by fixing screws
- Connectors according to IEC 61076-4-101 and PICMG 2.0
- VI/O selectable by wiring: 3.3 V or 5 V
- Power supply connection via Faston or M4 screw
- Auxiliary signals accessible at 5-pin header

Part No: 073737

www.ERNI.com/contact/
Rear view

Auxiliary signals

Power for +5V, +3.3V, V(I/O)

Power for +12V, -12V

Power for GND

Front view

CompactPCI 64-Bit Bus

CompactPCI 32-Bit Bus

System Slot
3 U CompactPCI Backplane with 4 Slots

State of the art design for a wide range of applications

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, datacom, and industrial applications like CNCs, robotic controls, and video image processing.

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

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

Part No: 073739

Features

- Form factor 3 U
  - Dimension (WxH): 80.3 mm x 128.7 mm
- 4 slots, 3 peripheral slots; system slot on right side
- Operates at 33 and 66 MHz clock frequency
- Full 64-bit implementation
- Controlled impedance of 65 Ohm realized by stripline-technology
- Best decoupling of supply voltages
- High-quality design with best EMC-characteristics by fully shielded 10-layer PCB
- Flexible grounding to chassis by fixing screws
- Connectors according to IEC 61076-4-101 and PICMG 2.0
- V(I/O) selectable by bus bar: 3.3 V or 5 V
- Power supply connection via M4 screw
- Auxiliary signals accessible at 5-pin header

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3 U CompactPCI Backplane with 4 Slots

State of the art design for a wide range of applications

General Description

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

Part No: 163747

Part No: 173583 (with 32-bit connector population)

Features

- Form factor 3 U
  Dimensions (WxH): 100.8 mm x 128.7 mm
- 4 slots, 3 peripheral slots; system slot on right side
- Operates at 33 MHz clock frequency
- 64-bit implementation
- Controlled impedance of 65 Ohm realized by stripline-technology
- Best decoupling of supply voltages
- High-quality design with best EMC-characteristics by fully shielded 10-layer PCB
- Flexible grounding to chassis by fixing screws
- Connectors according to IEC 61076-4-101 and PICMG 2.0
- V(II/O) fixed to 5 V
- Optional fastons for 5V and GND
- DIN Type M connector for cPCI modular power supply according to PICMG 2.11 R1.0
- Secure separation between hazardous voltages in mains supply and SELV circuit according to IEC 950

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CompactPCI 32-Bit Bus

mains supply by crimp contacts, user assembly

DIN Type M Connector for power supplies according to PICMG 2.11 Rev. 1.0

System Slot

Rear view

Front view

100,8

128,7

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