PCI Express
Right Angle Connectors
These card edge connectors are designed to meet the requirements of PCI Express architectures that call for a high performance point-to-point, full duplex I/O Bus connector. While most PCI Express connectors available in the market are vertical, the ERNI PCIe connectors are right-angled, designed for solving space constrained applications where low clearance above the PCB prohibits the use of vertical configurations. Right-angled PCIe connectors are compatible with 1.6 mm to 2.4 mm thick motherboards and 1.6 mm thick daughter cards. These robust PCIe connectors are available in 3 stack heights, and are equipped with molded polarization keys to prevent improper insertion of the daughter cards. The connectors provide solder termination. The layout is arranged in a 4-row format with 1 mm pitch and the provision of 2 holes for locator pegs. This enables the connector to be securely assembled and easy soldered through a lead-free wave soldering process. The ERNI PCIe connectors are available in 85 Ohm and 100 Ohm versions.
## PCI Express - Right Angle Connectors

### DESCRIPTION

**PCI Express** - Right Angle Connectors

### TECHNICAL DETAILS

<table>
<thead>
<tr>
<th>Pitch</th>
<th>1.0 mm</th>
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<tbody>
<tr>
<td>No of Pins</td>
<td>X1=36, X4=64, X8=98, X16=164, X24=230</td>
</tr>
<tr>
<td>Termination</td>
<td>Solder</td>
</tr>
<tr>
<td>Terminal Length</td>
<td>2.54 mm, 3.18 mm</td>
</tr>
<tr>
<td>Impedance</td>
<td>85 Ohm, 100 Ohm</td>
</tr>
<tr>
<td>Packaging</td>
<td>Tray packaging for automatic assembly</td>
</tr>
<tr>
<td>Variants</td>
<td>Right Angle Connectors</td>
</tr>
<tr>
<td>Standard</td>
<td>3 different stack heights</td>
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Stack Heights:
- 5.84 mm
- 11.18 mm
- 16.69 mm

Meets all PCIe Local Bus Standards Rev. 2.0
## PCI Express - Right Angle Connectors

### ELECTRICAL AND MECHANICAL CHARACTERISTICS

#### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</th>
<th>Standard</th>
<th>Right Angle Edge Card Connectors</th>
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</thead>
<tbody>
<tr>
<td>Number of Pins</td>
<td>X1=36, X4=64, X8=98, X16=164, X24=230</td>
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</tr>
<tr>
<td>Temperature range</td>
<td>-40 to +105 °C</td>
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</tr>
<tr>
<td>Current rating per contact</td>
<td>1.1 A continuous</td>
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<tr>
<td>Voltage rating</td>
<td>max. 300 V</td>
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</tr>
<tr>
<td>Dielectric strength</td>
<td>&gt;500 VAC at 60 Hz</td>
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<tr>
<td>Conductor resistance</td>
<td>&lt; 40 mΩ</td>
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<tr>
<td>Insulation resistance</td>
<td>&gt;1 x 10^9 MΩ at 500 VDC</td>
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<tr>
<td>Capacitance at 1 kHz</td>
<td>As advertised</td>
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<tr>
<td>Inductance at 10 kHz</td>
<td>As advertised</td>
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<tr>
<td>Impedance</td>
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<td></td>
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<tr>
<td>Crosstalk</td>
<td>Next &gt;30 dB at 2.0 GHz</td>
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<tr>
<td>Propagation delay</td>
<td>As advertised</td>
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<tr>
<td>Insertion loss</td>
<td>&lt;1 dB at 1.0 GHz</td>
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<tr>
<td>(for stack height 5.84 mm)</td>
<td>&lt;3 dB at 2.5 GHz</td>
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<tr>
<td>Return loss</td>
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<td>(for stack height 5.84 mm)</td>
<td>&gt;7 dB at 1.5 GHz</td>
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<td></td>
<td>&gt;4 dB at 2.0 GHz</td>
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<td>Processing Conditions</td>
<td>IEC 68-2-20</td>
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<tr>
<td>Dip soldering temperature max.</td>
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<td>Reflow soldering temperature max.</td>
<td>JEDEC J-STD-020</td>
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<td></td>
<td>20 - 90 s at 260 °C</td>
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### PCI Express - Right Angle Connectors

#### ELECTRICAL AND MECHANICAL CHARACTERISTICS

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<th>Standard</th>
<th>Right Angle Edge Card Connectors</th>
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<tbody>
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<td>Plastic material</td>
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<td>UL 94 V-0</td>
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<td><strong>Contact Material</strong></td>
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<td>gold plating</td>
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<td>Termination area</td>
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<td>gold plating</td>
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<td><strong>Environment Compatibility</strong></td>
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<tr>
<td>Recycling</td>
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<td>no flame-retardent additives, no toxic additives allow easy recycling</td>
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PCI Express - Right Angle Connectors

X1 LINK WIDTH, 36 PIN

**PRODUCT SPECIFICATION**

- Solder termination
- 85 Ohm and 100 Ohm versions
- The layout is arranged in a 4-row format with 1 mm staggered pitch
- Plastic cover protects connector from dust and debris
- Two locator pegs with interference fit to pcb for reliable processing
- Tray packaging for automatic assembly

**DIMENSIONAL DRAWINGS**

Recommended Layout
## ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Assembly Stack Height (mm)</th>
<th>Terminal Length (mm)</th>
<th>Impedance (Ω)</th>
<th>Contact Plating</th>
<th>Part Number</th>
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<tbody>
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</table>
PCI Express - Right Angle Connectors

X4 LINK WIDTH, 64 PIN

PRODUCT SPECIFICATION

- Solder termination
- 85 Ohm and 100 Ohm versions
- The layout is arranged in a 4-row format with 1 mm staggered pitch
- Plastic cover protects connector from dust and debris
- Two locater pegs with interference fit to pcb for reliable processing
- Tray packaging for automatic assembly

DIMENSIONAL DRAWINGS

Recommended Layout
# PCI Express - Right Angle Connectors

## X4 LINK WIDTH, 64 PIN

### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Assembly Stack Height (mm)</th>
<th>Terminal Length (mm)</th>
<th>Impedance (Ω)</th>
<th>Contact Plating</th>
<th>Part Number</th>
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</thead>
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### PCI Express - Right Angle Connectors

**X8 LINK WIDTH, 98 PIN**

#### PRODUCT SPECIFICATION

- Solder termination
- 85 Ohm and 100 Ohm versions
- The layout is arranged in a 4-row format with 1 mm staggered pitch
- Plastic cover protects connector from dust and debris
- Two locator pegs with interference fit to pcb for reliable processing
- Tray packaging for automatic assembly

#### DIMENSIONAL DRAWINGS

![Dimensional Drawings](image)

**Recommended Layout**

- **Terminal Length:**
  - Length 1: 14.67 mm ± 0.08
  - Length 2: 28.38 mm
  - Length 3: 10.76 mm
  - Length 4: 3.96 mm
- **Assembly Stack Height:** A

---

---
## ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Assembly Stack Height (mm)</th>
<th>Terminal Length (mm)</th>
<th>Impedance (Ω)</th>
<th>Contact Plating</th>
<th>Part Number</th>
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PCI Express - Right Angle Connectors

X16 LINK WIDTH, 164 PIN

**PRODUCT SPECIFICATION**

- Solder termination
- 85 Ohm and 100 Ohm versions
- The layout is arranged in a 4-row format with 1 mm staggered pitch
- Plastic cover protects connector from dust and debris
- Two locator pegs with interference fit to pcb for reliable processing
- Tray packaging for automatic assembly

**DIMENSIONAL DRAWINGS**

Recommended Layout
## ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Assembly Stack Height (mm)</th>
<th>Terminal Length (mm)</th>
<th>Impedance (Ω)</th>
<th>Contact Plating</th>
<th>Part Number</th>
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PCI Express - Right Angle Connectors

**X24 LINK WIDTH, 230 PIN**

**PRODUCT SPECIFICATION**

- Solder termination
- 85 Ohm versions
- The layout is arranged in a 4-row format with 1 mm staggered pitch
- Plastic cover protects connector from dust and debris
- Two locator pegs with interference fit to pcb for reliable processing
- Tray packaging for automatic assembly

**DIMENSIONAL DRAWINGS**

Recommended Layout

---

Catalog E 074641 09/15 Edition 1  www.erni.com
## X24 LINK WIDTH, 230 PIN

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## PCI Express - Right Angle Connectors

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OUR MANUFACTURING LOCATIONS

Germany

USA

China

Thailand

Switzerland

PCI Express - Right Angle Connectors

THE ERNI-GROUP