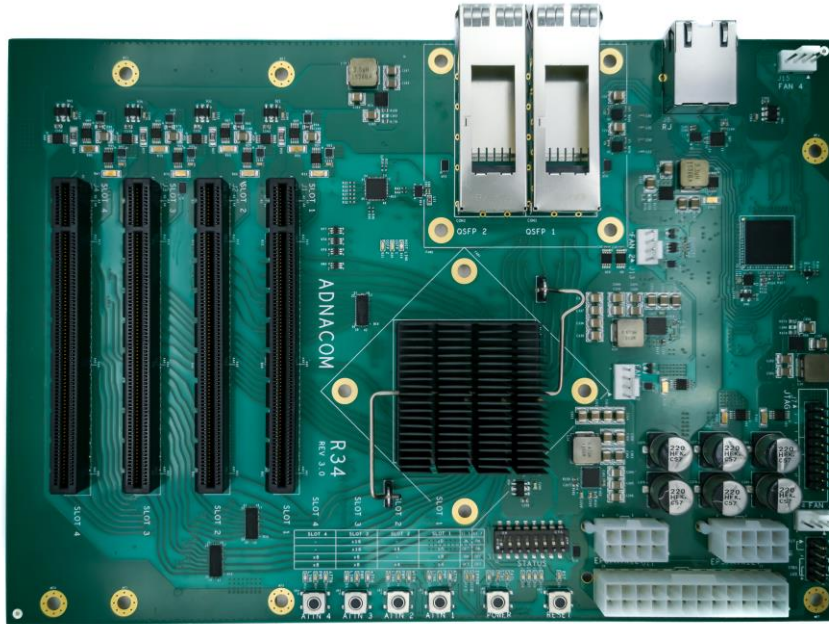


## PCIe Gen 3 Expansion Backplane, 4 PCIe Slots



The R34 is a PCIe Gen 3 backplane intended to extend the computer PCIe bus over one or two QSFP+ fiber-optic or copper cables. The backplane is based on a PCIe switch operating in a transparent mode. No additional programming and drivers are required.

### Product Features:

- Cable data rate up to 64 GT/s
- Four PCIe Gen 3 slots supporting bifurcation and hot-plug
- Operates with one or two QSFP+ cables
- Standard pluggable QSFP+ transceivers and cables
- Supports Reset, Power On, and Wake with AOC
- Optical isolation with optical cables
- Transparent operation
- Web-based diagnostic interface
- Operating temperature: -40<sup>o</sup> to +85<sup>o</sup> C

## Specifications

<b>PCIe slots</b>	Four PCIe Gen 3 x16 slots supporting the following electrical configurations: <table border="1" data-bbox="586 327 1109 474"> <thead> <tr> <th>Slot 1</th> <th>Slot 2</th> </tr> </thead> <tbody> <tr> <td>1 port x4</td> <td>1 port x4</td> </tr> <tr> <td>1 port x8</td> <td>Disabled</td> </tr> <tr> <td>2 port x4</td> <td>Disabled</td> </tr> </tbody> </table> <table border="1" data-bbox="586 510 1109 768"> <thead> <tr> <th>Slot 3</th> <th>Slot 4</th> </tr> </thead> <tbody> <tr> <td>1 port x8</td> <td>1 port x8</td> </tr> <tr> <td>1 port x8</td> <td>2 ports x4</td> </tr> <tr> <td>1 port x16</td> <td>Disabled</td> </tr> <tr> <td>2 port x8</td> <td>Disabled</td> </tr> <tr> <td>2 ports x4</td> <td>2 ports x4</td> </tr> <tr> <td>4 ports x4</td> <td>Disabled</td> </tr> </tbody> </table>	Slot 1	Slot 2	1 port x4	1 port x4	1 port x8	Disabled	2 port x4	Disabled	Slot 3	Slot 4	1 port x8	1 port x8	1 port x8	2 ports x4	1 port x16	Disabled	2 port x8	Disabled	2 ports x4	2 ports x4	4 ports x4	Disabled
Slot 1	Slot 2																						
1 port x4	1 port x4																						
1 port x8	Disabled																						
2 port x4	Disabled																						
Slot 3	Slot 4																						
1 port x8	1 port x8																						
1 port x8	2 ports x4																						
1 port x16	Disabled																						
2 port x8	Disabled																						
2 ports x4	2 ports x4																						
4 ports x4	Disabled																						
<b>Cable Interface</b>	<ul style="list-style-type: none"> <li>• PCIe Gen 3</li> <li>• One x8 (64GT/s) or x4 (32GT/s) upstream port</li> <li>• Separate Refclk with No SSC (SRNS) Architecture</li> <li>• 100 MHz constant clock</li> </ul>																						
<b>Cable Connectors</b>	Two QSFP connectors																						
<b>Cable Type</b>	<ul style="list-style-type: none"> <li>• QSFP Active Optical Cable (AOC)</li> <li>• QSFP Direct Attach Cable (DAC)</li> </ul>																						
<b>Auxiliary Cable Signals</b>	Reset, Power On, Wake with AOC																						
<b>PCIe Switch</b>	Broadcom PEX8734 <ul style="list-style-type: none"> <li>• 8.0 GT/s 32-Lane PCI Express Gen 3 Switch</li> </ul>																						
<b>Diagnostic Interface</b>	Configuration and status monitor via web interface																						
<b>Form Factor</b>	microATX and ATX compatible																						
<b>Dimensions</b>	9.60 x 6.75" (244 x 171 mm)																						
<b>Power Connectors</b>	One 24-pin ATX connector Two EPS/ATX12V 8 pin (4+4) connectors																						
<b>Power Consumption</b>	20 W max (without transceivers)																						
<b>Operating Temperature</b>	-40°C to 85°C with appropriate cables and air flow																						
<b>Storage Temperature</b>	-40°C to 85°C																						
<b>Operating Humidity</b>	10% to 90% relative humidity non-condensing																						
<b>Storage Humidity</b>	5% to 95% relative humidity non-condensing																						
<b>Agency Compliance</b>	FCC, CE, RoSH																						

## Ordering Information

Part Number	Description
<b>R34</b>	<ul style="list-style-type: none"> <li>• PCIe Gen 3 expansion backplane with four PCIe slots</li> <li>• ATX I/O shield</li> <li>• Cable is not included</li> </ul>