New Product Announcement
PI7C9X2G1616PR
PI7C9X2G912GP

9 & 16 Ports, 12 & 16 Lanes PCIe2.1 Packet Switches

The PI7C9X2G1616PR is a 16-lane PCI Express® Gen 2 Switch with 16 PCI Express ports and the PI7C9X2G912GP is a 12-lane PCI Express Gen 2 Switch with 9 PCI Express ports.

They have been specifically designed to meet high performance and the latest GREEN low-power system requirements of Networking/ Telecom, Embedded, Server, Storage and other platforms.

The PI7C9X2G1616PR supports 4 DMA channels and Non-Transparent port apply for high performance, dual-host and failover applications.

The PI7C9X2G912GP supports x2 configurations for high performance and multiple functional applications.

The PI7C9X1616PR/ 2G912GP provides elastic configurations of link width and port distribution.

Both are available in the -40°C to +85°C Industrial Temperature Range.

The PI7C9X2G1616PR is available in the 324-pin HSBGA 19mm x 19mm package and the PI7C9X2G912GP is available in the 196-pin LBGA 15mm x 15mm package.

The Diodes’ Advantage

9- and 16-lane PCIe2.1 Packet Switches provide elastic configurations of link width and port distribution

- Compliant with PCIe2.1 Specification
  Ensures good interoperability

- Have Multi x2 downstream ports
  Flexible design and full resource utilization

- Wide Operating Temperature at -40 to +85°C
  Meets commercial and industrial applications needs without restriction

- Advanced Power Management
  Meets the latest green and low power applications requirements

- Supports Serial Hot-Plug
  Makes Plug & Play applications easier

Applications

- Networking Switch Router
- Wired/ Wireless Telecom
- Data Communication
- Control Plane
- Fail-Over System
- NAS/ Storage
- Embedded Systems
- HBA/ Combo Cards
- IPC/ Industrial control
- Printer/ MFP/ Peripheral
- Surveillance/ Security
- Servers

PCI Express is a registered trademark of PCI-SIG Corp.
Typical Application Example

- **PI7C9X2G1616PR in Networking Switch/Router**

9-16 Ports, 12-16 Lanes PCIe2.1 Packet Switch Overview

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Protocol</th>
<th>Ports</th>
<th>Lanes</th>
<th>Power L0 (W)</th>
<th>Latency (ns)</th>
<th>Operating Temperature (°C)</th>
<th>Package</th>
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<tbody>
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<td>16-port, 16-lane, PCIe2 Packet Switch</td>
<td>PCIe2.1</td>
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<td>9-port, 12-lane, PCIe2 Packet Switch</td>
<td>PCIe2.1</td>
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<td>12</td>
<td>2.7</td>
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<td>-40 to +85</td>
<td>LBGA</td>
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Visit Diodes website to get more product information

- **PI7C9X2G1616PR**
- **PI7C9X2G912GP**

Ordering Information

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<th>Operating Temperature (°C)</th>
<th>Quantity per Tray</th>
<th>Quantity per Tape &amp; Reel</th>
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</tbody>
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† Note: Adding an X suffix = Tape/Reel